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OCCUPATIONAL SURVEY REPORT 19990521 158

SURGICAL SERVICES

AFSC 4N1X1B/C/D

OSSN 2331

MARCH 1999

OCCUPATIONAL ANALYSIS PROGRAM AIR FORCE OCCUPATIONAL MEASUREMENT SQUADRON AIR EDUCATION AND TRAINING COMMAND 1550 5TH STREET EAST RANDOLPH AFB, TEXAS 78150-4449

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| | | <u>OSK</u> | EAI | EAI | 1114 |
| AFOMS/OMDQ | | 1 | | | |
| AFOMS/OMYXL | | 10 | | 5 | 10 |
| AL/HRMM | | 2 | | | |
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| HQ AMC/DPPET | | 1 | | | |
| HQ PACAF/DPPET | | 3 | | 3 | |
| HQ USAFE/DPATTJ | | 3. | | 3 | |
| HQ USMC/STANDARDS BRANCH | | 1 | | | |
| NAVMAC | | 1 | | | |
| 59 MW/NS (2200 BERGQUIST DRIVE, STE 1, LACKLAND AFB TX 78236-5300) | | 1 | | 1 | |
| 383 TRS/TRR (939 MISSILE ROAD, STE 3, SHEPPARD AFB TX 76311- 2262) | • | 7 | 1 | 4 | 3 |
| 882 TRG/TGEQT (939 MISSLE ROAD, STE 1, SHEPPARD AFB TX 76311-2245) | | 1 | | 1 | |

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PREFACE

This report presents the results of an Air Force Occupational Survey of the Surgical Services career ladder, Air Force Specialty Code (AFSC) 4N1X1B/C/D. Authority for conducting occupational surveys is contained in AFI 36-2623. Copies of this report and pertinent computer printouts are distributed to the Air Force Functional Manager, the technical training location, all major using commands, and other interested operations and training officials.

The survey instrument was developed by First Lieutenant Christopher D. Gilliam, Inventory Development Specialist, with computer programming support furnished by Mrs. Jeanie C. Guesman and administrative support provided by Mr. Richard G. Ramos. First Lieutenant Diedre N. Presley, Occupational Analyst, analyzed the data and wrote the final report. This report has been reviewed and approved by Lieutenant Colonel Roger W. Barnes, Chief, Airman Analysis Section, Occupational Analysis Flight, Air Force Occupational Measurement Squadron (AFOMS).

Additional copies of this report can be obtained by writing to AFOMS/OMYXI, 1150 5th Street East, Randolph AFB Texas 78150-4449, or by calling DSN 487-5543. For information on the Air Force occupational survey process or other on-going projects, visit our web site at http://www.omsq.af.mil.

GEORGE KAILIWAI III, Lt Col, USAF Commander Air Force Occupational Measurement Squadron JOSEPH S. TARTELL
Chief, Occupational Analysis Flight
Air Force Occupational Measurement Squadron

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SUMMARY OF RESULTS

- 1. <u>Survey Coverage</u>: The Surgical Services career ladder was surveyed to obtain current task and equipment data for use in evaluating current training programs. Survey results are based on responses from 764 respondents (69 percent of total number surveyed). The survey sample satisfactorily represents the overall career ladder population.
- 2. <u>Specialty Jobs</u>: One cluster and eight independent jobs were identified in the career ladder analysis. The eight independent jobs identified were: Central Sterile Supply (CSS) Technician, Otorhinoloaryngology (ENT) Technician, Urology Technician, Orthopedic Technician, Clinic NCOIC, Surgical Logistics, Supervisory and Management, and Superintendent. The three jobs comprising the Surgical Services Cluster were: Entry-Level Operating Room (OR) Technician, OR Technician, and Phase II Instructors.
- 3. <u>Career Ladder Progression</u>: Skill-level progression for members of this AFSC is typical of most career ladders. Personnel at the 3- and 5-skill levels perform many tasks in common and both groups spend the vast majority of their relative job time performing general clinical activities, sterile operating room activities, performing central sterile supply activities, and nonsterile intraoperative operating room activities. Seven-skill level members still perform a substantial amount of routine day-to-day technical tasks, but a shift toward supervisory and management functions is evident. Personnel at the 9-skill level spend the majority of their job time performing administrative and management activities.
- 4. <u>Training Analysis</u>: A comprehensive review of the Specialty Training Standard (STS) found that most paragraphs were supported by the survey data. However, those STS paragraphs covering urology, orthopedics, and otorhinolaryngology activities had several unsupported tasks. The analysis also revealed numerous tasks not referenced to the STS. Analysis of the 4N1X1B/C/D Plan of Instruction (POI) revealed that several paragraphs are not supported by survey data. These areas should be reviewed to determine any modifications required to improve the effectiveness or efficiency of training.
- 5. <u>Job Satisfaction Analysis</u>: In general, job satisfaction among AFSC 4N1X1B/C/D personnel is high. When compared to other Medical AFSCs surveyed in 1997, AFSC 4N1X1B/C/D members in the 1-48 months, 49-96 months, and 97+ months total active federal military service groups (TAFMS) indicated similar responses. Data show AFSC 4N1X1B/C/D personnel satisfaction indicators are comparable with their counterparts in other medical AFSCs. Overall, respondents within the various job groups find their work interesting and feel their talents and training are well used.

6. <u>Implications</u>: Survey results indicate the present classification structure is supported by survey data. The STS and POI document should be thoroughly examined to determine if areas should be retained or deleted in the next Career Field Education and Training Plan (CFETP). The tasks with high percentages of members performing should be examined for inclusion into the CFETP document. Responses by sample personnel reflect positive feelings toward their jobs and training.

OCCUPATIONAL SURVEY REPORT (OSR) SURGICAL SERVICES (AFSC 4N1X1B/C/D)

INTRODUCTION

This is a report of an occupational survey of the Surgical Services career ladder, AFSC 4N1X1B/C/D, conducted by the Occupational Analysis Flight, Air Force Occupational Measurement Squadron (AFOMS). The "B" shredout personnel operate special urological radiography equipment, administer injections, catheterize patients, perform laboratory tests and procedures, and administer intravesical medications; the "C" apply and remove casts and splints as directed by health care providers, and the "D" shred personnel perform minor diagnostic and therapeutic ear, nose, and throat (ENT) procedures. This survey data will ensure current data for use in evaluating the effectiveness of training within the career ladder and technical training materials. The last OSR was published in March 1995.

Background

As described in the AFMAN 36-2108 Airman Classification, dated 31 October 1998, Surgical Services personnel at the 3- and 5-skill level participate in, manage, and evaluate surgical patient care activities and related training programs. They also organize the medical environment, perform and direct support activities in patient care situations, including contingency operations and disasters, assist professional staff in providing patient care for the surgical patient before, during, and after surgery, and perform scrub and circulating duties in the operating room (OR). Additionally, 3- and 5-skill level personnel participate in planning, implementing, and evaluating management activities related to the OR and Central Sterile Supply Services (CSSS).

In addition to the above tasks, personnel at the 7-skill level perform management and training functions within the surgical service, plan and schedule workloads and duty assignments, and establishes work methods and standards. They also analyze requirements and supervise requisition, storage, maintenance, and issue of equipment and supplies. Seven-skill level personnel also inspect and evaluate activities and procedures to ensure maintenance of asepsis and proper environmental, equipment, and facility safety conditions.

Initial 3-skill level training for AFSC 4N1X1B/C/D personnel is currently provided through course J3AQR4N131-002, Surgical Service Apprentice Course (Phase I) taught at Sheppard AFB TX. This course is 8-weeks, 1 day in length and provides the airman with knowledge and skills necessary to perform sterile and non-sterile functions in the operating room when assisting the surgeon as scrub specialists or assisting the nurse in performing circulating duties. Upon

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completion of Phase I, students proceed to course J5ABO4N131-002, Surgical Services Apprentice Course (Phase II), in order to receive 3-skill level. This 6-week clinical course is taught at the following locations: Offutt AFB, Travis AFB, Scott AFB, Kirtland AFB, Keesler AFB, Andrews AFB, and Wright-Patterson AFB.

Entry into AFSC 4N1X1B/C/D requires a General Armed Forces Vocational Aptitude Battery score of General 53 and a Strength and Stamina requirement of "G" (weight lift of 40lbs).

SURVEY METHODOLOGY

Inventory Development

The data collection instrument for this occupational survey was USAF Job Inventory (JI) OSSN 2331, dated March 1998. A tentative task list was prepared after reviewing pertinent career ladder publications and directives, pertinent tasks from the previous survey instrument, and data from the last OSR. The preliminary task list was refined and validated through personal interviews with 29 subject-matter experts (SMEs) at the technical training location and at the following operational bases:

| BASE | UNIT VISITED |
|-----------------|---------------|
| Sheppard AFB TX | 383 TRS/XUEA |
| Lackland AFB TX | 59 MW/NS |
| Kirtland AFB NM | 377 MDOS/SGOS |
| Travis AFB CA | 60 MDOS/SGCS |
| Maxwell AFB AL | 42 MDOS/SGOS |

The resulting JI contains a comprehensive listing of 461 tasks grouped under 16 duty headings and a background section requesting such information as grade, duty title, organizational level, medical facility assigned, work schedule, national certification held, and special tools or equipment operated.

Survey Administration

From May through September 1998, Base Training Offices administered the inventory to 1,100 eligible Active Duty AFSC 4N1X1B/C/D personnel. To qualify for the survey, personnel were required to hold a duty AFSC of 4N1X1B/C/D. Excluded from the survey were the following (1) hospitalized personnel; (2) personnel in transition for a permanent change of station (PCS); (3) students; (4) personnel retiring within the time the inventories were administered to the field; and (5) personnel with less than 6 weeks on the job. Job incumbents were selected from a computer-generated mailing list obtained from personnel data tapes maintained by the Air Force Personnel Center, Randolph AFB TX.

Each individual who completed the inventory first completed an identification and biographical information section and then checked each task performed in his or her current job. After checking all tasks performed, each member then rated each of these tasks on a 9-point scale, showing relative time spent on that task, as compared to all other tasks checked. The ratings ranged from 1 (very small amount time spent) through 5 (about average time spent) to 9 (very large amount time spent).

To determine relative time spent for each task checked by a respondent, all of the incumbent's ratings are assumed to account for 100 percent of his or her time spent on the job and are summed. Each task rating is then divided by the total task ratings and multiplied by 100 to provide a relative percentage of time spent for each task. This procedure provides a basis for comparing tasks in terms of both percent members performing and average percent time spent.

Survey Sample

Personnel were selected to participate in this survey so as to ensure an accurate representation across major commands (MAJCOM) and paygrade groups. All eligible AFSC 4N1X1B/C/D personnel were mailed survey booklets. Table 1 reflects the percentage of assigned AFSC 4N1X1B/C/D personnel as of May 1998. The 764 respondents in the final sample represent 64 percent of the total assigned personnel. Table 2 reflects the paygrade and MAJCOM distribution for AFSC 4N1X1B/C/D personnel.

Task Factor Administration

Job descriptions alone do not provide sufficient data for making decisions about career ladder documents or training programs. Task factor information is needed for a complete analysis of the career ladder. While most participants in the survey process completed an USAF JI, selected senior AFSC 4N1X1B/C/D personnel were also asked to complete booklets rendering judgments on task training emphasis (TE) or task difficulty (TD). The TE and TD booklets were processed separately from the JIs. The information gained from these task factor data is used in various analyses and is a valuable part of the training decision process.

Training Emphasis (TE). TE is a rating of the amount of emphasis that should be placed on tasks in entry-level training. The 41 senior AFSC noncommissioned officers (NCOs) who completed a TE booklet were asked to select tasks they felt required some sort of structured training for entry-level personnel and then indicate how much training emphasis these tasks should receive, from 1 (extremely low emphasis) to 9 (extremely high emphasis). Structured training is defined as training provided at resident technical schools, field training detachments, mobile training teams, formal on-the-job-training (OJT), or any other organized training method. The interrater reliability was excellent, indicating very strong agreement among the 27 raters as to which tasks required some form of structured training and which did not. The average TE rating was 3.13, with a standard deviation of 2.24. Any task with a TE rating of 5.37 or above is considered to have high TE.

<u>Task Difficulty (TD)</u>. TD is an estimate of the amount of time needed to learn how to do each task satisfactorily. The 37 senior NCOs who completed TD booklets were asked to rate the difficulty of each task using a 9-point scale (extremely low to extremely high). Interrater reliability was acceptable, with high agreement. Ratings were standardized, so tasks have an average difficulty of 5.00 and a standard deviation of 1.00. Any task with a TD rating of 6.00 or above is considered to be difficult to learn.

When used in conjunction with the primary criterion of percent members performing, TE and TD ratings can provide insight into first-enlistment personnel training requirements. Such insights may suggest a need for lengthening or shortening portions of instruction supporting entry-level jobs.

SPECIALTY JOBS

(Career Ladder Structure)

The occupational analysis process begins with an examination of the career ladder structure. The structure of jobs within the Surgical Services career ladder was examined based on similarity of tasks performed and the relative percent of time spent ratings provided by job incumbents, independent of other specialty background factors.

The first step in the analysis process is to identify the structure of the career ladder in terms of the jobs performed by the respondents. The Comprehensive Occupational Data Analysis Program (CODAP) creates an individual job description for each respondent based on the tasks performed and relative amount of time spent on the tasks. The CODAP automated job clustering program then compares all the individual job descriptions, locates the two descriptions with the most similar tasks and time spent ratings, and then combines them to form a composite job description. In successive stages, new members are added to the initial group or new groups are formed based on the similarity of tasks performed and time spent rating.

TABLE 1

DAFSC DISTRIBUTION OF SURVEYED PERSONNEL

| DAFSC | PERCENT OF ASSIGNED | PERCENT OF SAMPLE |
|--------|------------------------|----------------------|
| 4N1X1 | 80 | 81 |
| 4N1X1B | 4 | 4 |
| 4NIXIC | 11 | 10 |
| 4N1X1D | 5 | 5 |

TOTAL ASSIGNED* = 1,202

TOTAL SURVEYED = 1,100

TOTAL IN SURVEY SAMPLE = 764

PERCENT OF ASSIGNED IN SAMPLE = 64%

PERCENT OF SURVEYED IN SAMPLE = 69%

* Assigned strength as of May 1998

TABLE 2 PAYGRADE / COMMAND DISTRIBUTION OF TOTAL SURVEY SAMPLE

| PAYGRADE | PERCENT OF ASSIGNED* | PERCENT OF SAMPLE |
|-----------|-------------------------|----------------------|
| E-1 - E-3 | 29 | 30 |
| E-4 | 30 | 28 |
| E-5 | 23 | 25 |
| E-6 | 10 | 10 |
| E-7 | 7 | 7 |
| E-8 | - | 0 |
| COMMAND | PERCENT OF ASSIGNED* | PERCENT OF SAMPLE |
| AETC | 25 | 26 |
| AMC | 21 | 25 |
| ACC | 20 | 20 |
| AFMC | - 17 | 12 |
| USAFE | 7 | 7 |
| PACAF | 5 | 6 |
| AFSPC | 2 | 2 |
| USAFA | 2 | 2 |
| ELM | - | 0 |

^{*} Assigned strength as of May 1998
-Less than 1 percent

TABLE 2 (CONTINUED) PAYGRADE / COMMAND DISTRIBUTION OF 4N1X1 SAMPLE

| PAYGRADE | PERCENT OF ASSIGNED* | PERCENT OF SAMPLE |
|-----------|-------------------------|----------------------|
| E-1 - E-3 | . 37 | 36 |
| E-4 | 27 | 27 |
| E-5 | 20 | 20 |
| E-6 | 9 | 9 |
| E-7 | 6 | 8 |
| E-8 | - , | 0 |
| COMMAND | PERCENT OF ASSIGNED* | PERCENT OF SAMPLE |
| AETC | 25 | 24 |
| AMC · | 20 | 20 |
| ACC | 20 | 20 |
| AFMC | 17 | 11 |
| USAFE | 7 | 7 |
| PACAF | 5 | 5 |
| AFSPC | 2 | 3 |
| USAFA | 3. | 9 |
| ELM | - | - |

^{*} Assigned strength as of May 1998
-Less than 1 percent

TABLE 2 (CONTINUED)

PAYGRADE / COMMAND DISTRIBUTION OF 4N1X1B SAMPLE

| PAYGRADE | PERCENT OF ASSIGNED* | PERCENT OF SAMPLE |
|-----------|-------------------------|----------------------|
| E-1 - E-3 | 0 | 0 |
| E-4 | 19 | 15 |
| E-5 | 50 | 64 |
| E-6 | . 15 | 7 |
| E-7 | 16 | 14 |
| E-8 | 0 | 0 |
| COMMAND | PERCENT OF ASSIGNED* | PERCENT OF SAMPLE |
| AETC | 31 | 29 |
| AMC | 24 | 31 |
| ACC | 17 | 25 |
| AFMC | 10 | 4 |
| USAFE | 10 | 4 |
| PACAF | 4 | 7 |
| AFSPC | 0 | . 0 |
| USAFA | 4 | 0. |
| ELM | 0 | 0 |

^{*} Assigned strength as of May 1998

TABLE 2 (CONTINUED)

PAYGRADE / COMMAND DISTRIBUTION OF 4N1X1C SAMPLE

| | The state of the s | |
|-----------|--|-------------------|
| PAYGRADE | PERCENT OF ASSIGNED* | PERCENT OF SAMPLE |
| | | |
| E-1 - E-3 | 2 | 1 |
| E-4 | 42 | 38 |
| E-5 | 33 | 37 |
| E-6 | 14 | 15 |
| E-7 | 9 | 9 |
| E-8 | 0 | - 0 |
| | PERCENT OF | PERCENT OF |
| COMMAND | ASSIGNED* | SAMPLE |
| AETC | 20 | 24 |
| AMC | 18 | 18 |
| ACC | 20 | 19 |
| AFMC | 20 | 14 |
| USAFE | 8 | 8 |
| PACAF | 9 | 10 |
| AFSPC | 2 | 2 |
| USAFA | 3 | 5 |
| ELM | 0 | 0 |

^{*} Assigned strength as of May 1998

TABLE 2 (CONTINUED)

PAYGRADE / COMMAND DISTRIBUTION OF 4N1X1D SAMPLE

| PAYGRADE | PERCENT OF ASSIGNED* | PERCENT OF SAMPLE |
|-----------|-------------------------|----------------------|
| E-1 - E-3 | 2 | 0 |
| E-4 | 46 | 34 |
| E-5 | 33 | 40 |
| E-6 | 14 | 23 |
| E-7 | 5 | 3 |
| E-8 | 0 | 0 |
| COMMAND | PERCENT OF ASSIGNED* | PERCENT OF SAMPLE |
| AETC | 22 | 28 |
| AMC | 28 | 28 |
| ACC | 15 | 14 |
| AFMC | 15 | 9 |
| USAFE | 9 | . 9 |
| PACAF | 6 | 6 |
| AFSPC | 0 | 0 |
| USAFA | 5 | 6 |
| ELM | 0 | . 0 |

^{*} Assigned strength as of May 1998

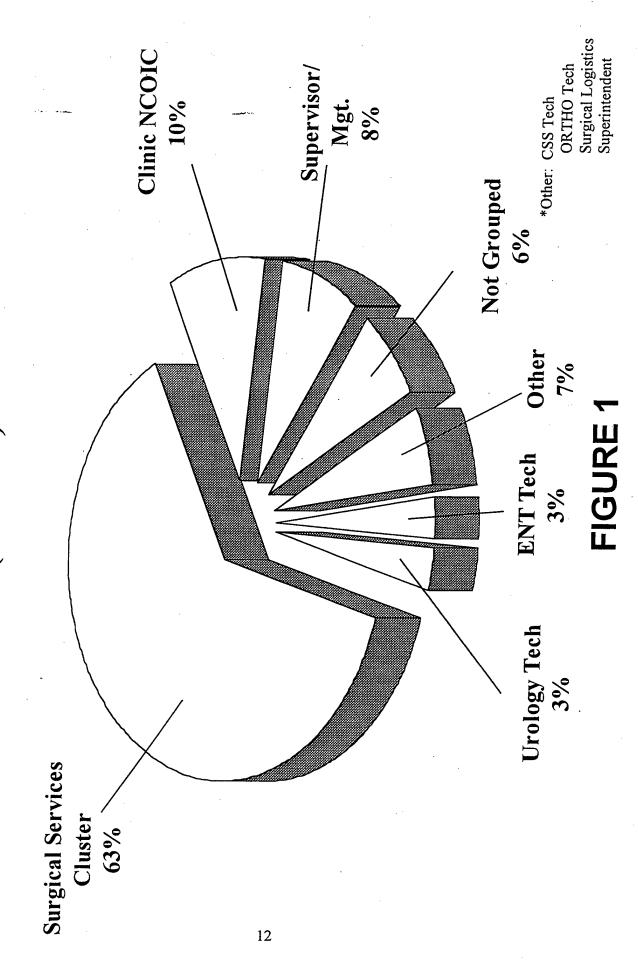
The basic group used in the hierarchical clustering process is the <u>Job</u>. When two or more jobs have a substantial degree of similarity in tasks performed and time spent on tasks, they are grouped together and identified as a <u>Cluster</u>. The structure of the career ladder is then defined in terms of jobs and clusters of jobs. The resulting job structure information can be used to evaluate the accuracy of career ladder documents (i.e., AFMAN 36-2108 Airman Classification, the Career Field Education and Training Plan, and Specialty Training Standard (STS)) and to gain a better understanding of current utilization patterns.

Overview of Specialty Jobs

Based on the analysis of tasks performed and the amount of time spent performing each task, one cluster and eight jobs were identified within the AFSC 4N1X1B/C/D survey sample. Figure 1 illustrates the jobs performed by all AFSC 4N1X1B/C/D personnel. Figures 2 through 5 illustrate the jobs performed by 4N1X1 "B," "C," and "D" shred personnel respectively. A listing of those jobs is provided below. The stage (ST) number shown beside each title is a reference to computer-printed information; the letter "N" represents the number of personnel in each group.

- I. SURGICAL SERVICES CLUSTER (ST043, N=478)
 - A. Entry-Level Operating Room (OR) Technician Job (ST046, N=34)
 - B. Operating Room (OR) Technician Job (ST048, N=434)
 - C. Phase II Training Instructor Job (ST056, N=9)
- II. CENTRAL STERILE SUPPLY (CSS) TECHNICIAN JOB (ST069, N=12)
- III. OTORHINOLARYNGOLOGY (ENT) TECHNICIAN JOB (ST128, N=20)
- IV. UROLOGY TECHNICIAN JOB (ST102, N=25)
- V. ORTHOPEDIC TECHNICIAN JOB (ST066, N=17)
- VI. CLINIC NCOIC JOB (ST087, N=74)
- VII. SURGICAL LOGISTICS JOB (ST068, N=14)
- VIII. SUPERVISORY AND MANAGEMENT JOB (ST052, N=61)
 - IX. SUPERINTENDENT JOB (ST033, N=5)

4N1X1 B/C/D CAREER LADDER JOBS (N = 764)

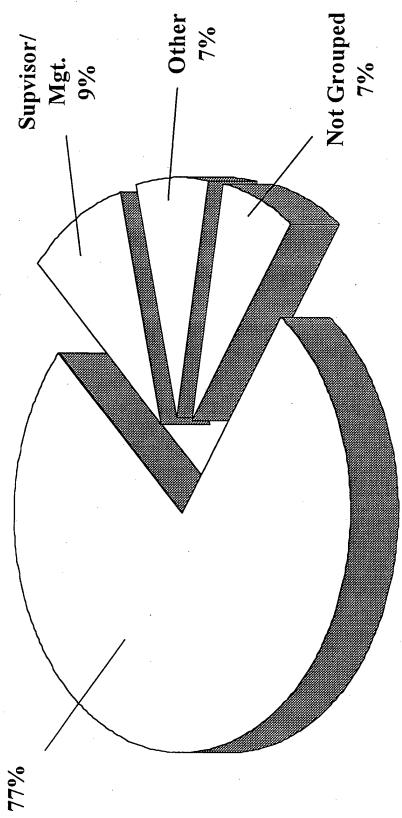


4N1X1 CAREER LADDER JOBS

(N = 623)

Surgical Services

Cluster



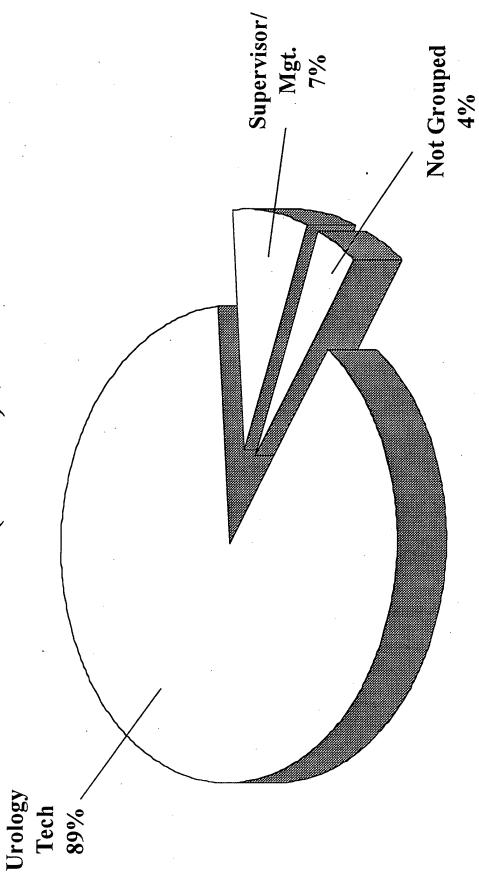
*Other: CSS Tech

ORTHO Tech ENT Tech

Surgical Logistics Superintendent Clinic NCOIC

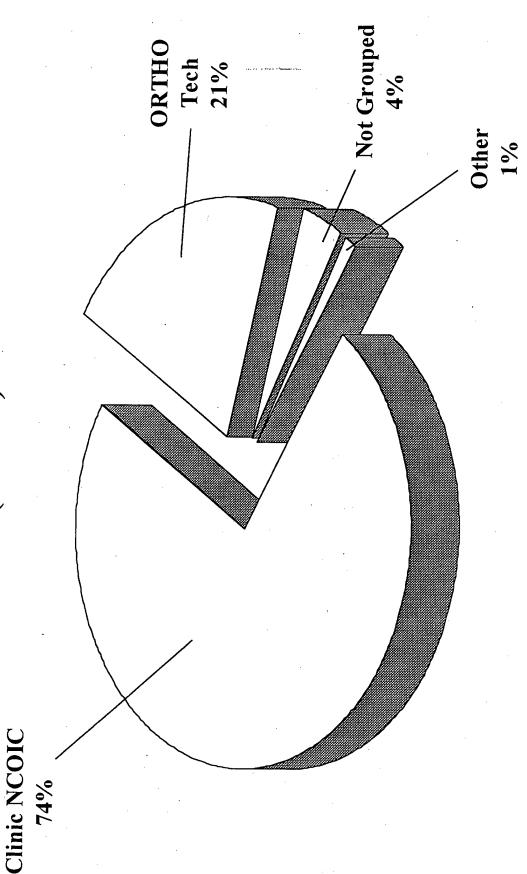
4N1X1B CAREER LADDER JOBS

(N = 28)



4N1X1C CAREER LADDER JOBS

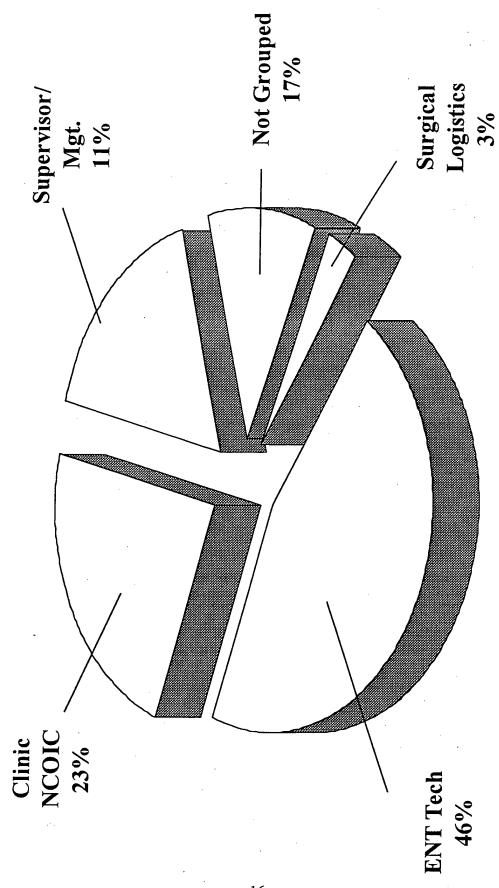
(N = 78)



*Other: Surgical Services Cluster

4N1X1D CAREER LADDER JOBS

(N = 35)



The respondents forming these jobs account for 94 percent of the survey sample (Figure 1). The remaining 6 percent are performing tasks or a series of tasks that did not group with any of the defined jobs. Some of the job titles given by respondents representative of these personnel include: Ambulatory Procedure Unit Technician, Anesthesia Technician, OB/GYN Surgical Technician, Cardiothoracic Technician, CDC Writer, NCOIC Health Wellness Center, NCOIC Medical Readiness Instructor, NCOIC Surgical Research

Group Descriptions

The following paragraphs contain brief descriptions of the jobs identified through the career ladder structure analysis. Appendix A lists representative tasks performed by identified cluster and job groups. Table 3 presents the relative time spent on duties by members of these specialty jobs. Table 4 provides demographic information for each cluster and job discussed within this report.

I. SURGICAL SERVICES CLUSTER (ST043). This cluster represents the core jobs of the Surgical Services career ladder. The three jobs identified within this cluster are the Entry-Level OR Technician, OR Technician, and Phase II Training Instructor. The 478 members in this cluster have no shred designation ("Slick") and represent the largest identified group, encompassing 63 percent of the survey sample. Because this is the basic job of the career ladder, it is performed by the most recently trained through the more senior AFSC 4N1X1 personnel. Tasks performed by these members encompass the essence of Surgical Services activities as members perform sterile and non-sterile functions in the operating room when assisting the surgeon as scrub specialist or assisting the nurse in performing circulating duties. Members within this cluster spend the majority of their time performing tasks in all duties (see Table 3). They spend 29 percent of their time performing sterile operating room activities, 15 percent performing central sterile supply (CSS) activities, 11 percent performing non-sterile intraoperative operating room activities, and 7 percent performing non-sterile preoperative operating room activities, nonsterile postoperative operating room activities, operating room transport or outside float activities, and administrative or management activities. The following tasks demonstrate the nature of work performed by these individuals:

perform hand and arm scrubs
establish sterile fields in OR while scrubbed
arrange sterile instruments and supplies on back tables while scrubbed
pass instruments or supplies to operating team members using traditional techniques
assist professional staff in performing counts of sponges, needles, instruments, or
related supplies while scrubbed
perform preliminary cleaning of soiled instruments prior to return to CSS
identify and properly manage dirty instruments or contaminated field
don or doff sterile gowns or gloves
assist surgeons in applying sterile drapes while scrubbed

TABLE 3

AVERAGE PERCENT TIME SPENT ON DUTIES BY CAREER LADDER JOBS

| DI | JTIES | SURGICAL SERVICES CLUSTER (N=478) | CSS TECH JOB (N=12) | ENT TECH JOB (N=20) |
|----|---|--|------------------------------|------------------------------|
| Α | PERFORMING GENERAL CLINICAL ACTIVITIES | 3 | 3 | 26 |
| В | PERFORMING CENTRAL STERILE SUPPLY (CSS) ACTIVITIES | 15 | 83 | 5 |
| C | PERFORMING ANESTHESIA SUPPORT ACTIVITIES | 2 | 0 | * |
| D | PERFORMING STERILE OPERATING ROOM ACTIVITIES | 29 | * | 26 |
| E | PERFORMING NONSTERILE PREOPERATIVE OPERATING ROOM ACTIVITIES | 7 | * | 4 |
| F | PERFORMING NONSTERILE INTRAOPERATIVE OPERATING ROOM ACTIVITIES | · 11 | 0 | 7 |
| G | PERFORMING NONSTERILE POSTOPERATIVE OPERATING ROOM ACTIVITIES | 7 | * | 3 |
| Н | PERFORMING OPERATING ROOM TRANSPORT OR OUTSIDE FLOAT ACTIVITIES | 7 | 0 | 2 |
| I | PERFORMING OTORHINOLARYNGOLOGY (ENT) ACTIVITIES | * | 0 | 8 |
| J | PERFORMING ORTHOPEDIC ACTIVITIES | * | Ö | * |
| K | PERFORMING UROLOGY ACTIVITIES | * | ŏ | 0 |
| L | PERFORMING RESEARCH ACTIVITIES | * | 0 | Ö |
| M | PERFORMING LOGISTICS OR RESOURCE MANAGEMENT | 5 | 3 | 10 |
| | ACTIVITIES | | | |
| N | PERFORMING MEDICAL READINESS ACTIVITIES | 3 | 6 | 3 . |
| 0 | PERFORMING ADMINISTRATIVE OR MANAGEMENT ACTIVITIES | 7 | 3 | 5 |
| P | PERFORMING TRAINING ACTIVITIES | 3 | 2 | * |

^{*} Indicates less than 1 percent

TABLE 3 (CONTINUED)

AVERAGE PERCENT TIME SPENT ON DUTIES BY CAREER LADDER JOBS

| | | UROLOGY TECH | ORTHO TECH | CLINIC NCOIC |
|----|--|-----------------|---------------|-----------------|
| DI | JTIES | JOB (N=25) | JOB (N=17) | JOB |
| | | (IN-23) | (N-1/) | (N=74) |
| Α | PERFORMING GENERAL CLINICAL ACTIVITIES | 25 | 35 | 21 |
| В | PERFORMING CENTRAL STERILE SUPPLY (CSS) ACTIVITIES | 3 | * | 2 |
| C | PERFORMING ANESTHESIA SUPPORT ACTIVITIES | * | 0 | * |
| D | PERFORMING STERILE OPERATING ROOM ACTIVITIES | 21 | 1 | 13 |
| Ε | PERFORMING NONSTERILE PREOPERATIVE OPERATING ROOM | 3 | * | 3 |
| | ACTIVITIES | · · | | , |
| F | PERFORMING NONSTERILE INTRAOPERATIVE OPERATING | 8 | * | 6 |
| | ROOM ACTIVITIES | v | | U |
| G | PERFORMING NONSTERILE POSTOPERATIVE OPERATING | 3 | * | 2 |
| | ROOM ACTIVITIES | 3 | | 2 |
| H | PERFORMING OPERATING ROOM TRANSPORT OR OUTSIDE | 1 | * | 2 |
| | FLOAT ACTIVITIES | • | | . 2 |
| I | PERFORMING OTORHINOLARYNGOLOGY (ENT) ACTIVITIES | 0 | 0 | ī |
| J | PERFORMING ORTHOPEDIC ACTIVITIES | 0 | 35 | 17 |
| K | PERFORMING UROLOGY ACTIVITIES | 9 | 0 | * |
| L | PERFORMING RESEARCH ACTIVITIES | * | * | * |
| M | PERFORMING LOGISTICS OR RESOURCE MANAGEMENT | 12 | 11 | 11 |
| | ACTIVITIES | | | |
| N | PERFORMING MEDICAL READINESS ACTIVITIES | 2 | * | 4 |
| 0 | PERFORMING ADMINISTRATIVE OR MANAGEMENT | 10 | 14 | 13 |
| | ACTIVITIES | | | |
| P | PERFORMING TRAINING ACTIVITIES | 2 | 3 | 4 |
| | | | | • |

^{*} Indicates less than 1 percent

 ${\bf TABLE~3~(CONTINUED)}$ AVERAGE PERCENT TIME SPENT ON DUTIES BY CAREER LADDER JOBS

| A PERFORMING GENERAL CLINICAL ACTIVITIES B PERFORMING CENTRAL STERILE SUPPLY (CSS) ACTIVITIES C PERFORMING ANESTHESIA SUPPORT ACTIVITIES D PERFORMING STERILE OPERATING ROOM ACTIVITIES E PERFORMING NONSTERILE PREOPERATIVE OPERATING ROOM ACTIVITIES F PERFORMING NONSTERILE INTRAOPERATIVE OPERATING ROOM ACTIVITIES C PERFORMING NONSTERILE INTRAOPERATIVE OPERATING * 1 0 | RINT B =5) |
|--|------------------|
| B PERFORMING CENTRAL STERILE SUPPLY (CSS) ACTIVITIES 7 7 0 C PERFORMING ANESTHESIA SUPPORT ACTIVITIES * 0 D PERFORMING STERILE OPERATING ROOM ACTIVITIES 3 2 0 E PERFORMING NONSTERILE PREOPERATIVE OPERATING ROOM 1 * 0 ACTIVITIES F PERFORMING NONSTERILE INTRAOPERATIVE OPERATING * 1 0 ROOM ACTIVITIES | 1 |
| C PERFORMING ANESTHESIA SUPPORT ACTIVITIES D PERFORMING STERILE OPERATING ROOM ACTIVITIES E PERFORMING NONSTERILE PREOPERATIVE OPERATING ROOM ACTIVITIES F PERFORMING NONSTERILE INTRAOPERATIVE OPERATING ROOM ACTIVITIES * 0 * 0 * 0 * 0 * 0 * 0 * 0 | |
| D PERFORMING STERILE OPERATING ROOM ACTIVITIES E PERFORMING NONSTERILE PREOPERATIVE OPERATING ROOM ACTIVITIES F PERFORMING NONSTERILE INTRAOPERATIVE OPERATING ROOM ACTIVITIES 3 2 0 * 0 * 1 * 0 ROOM ACTIVITIES | |
| E PERFORMING NONSTERILE PREOPERATIVE OPERATING ROOM 1 * 0 ACTIVITIES F PERFORMING NONSTERILE INTRAOPERATIVE OPERATING * 1 0 ROOM ACTIVITIES | |
| ACTIVITIES F PERFORMING NONSTERILE INTRAOPERATIVE OPERATING * 1 0 ROOM ACTIVITIES | |
| ROOM ACTIVITIES | |
| ROOM ACTIVITIES | |
| C DEPEND ON CHANGE BY THE COURT OF THE COURT | |
| G PERFORMING NONSTERILE POSTOPERATIVE OPERATING 2 * 0 | |
| ROOM ACTIVITIES | |
| H PERFORMING OPERATING ROOM TRANSPORT OR OUTSIDE 1 * 0 | |
| FLOAT ACTIVITIES | |
| I PERFORMING OTORHINOLARYNGOLOGY (ENT) ACTIVITIES 1 * 0 | |
| J PERFORMING ORTHOPEDIC ACTIVITIES 0 * 0 | |
| K PERFORMING UROLOGY ACTIVITIES 0 * 0 | |
| L PERFORMING RESEARCH ACTIVITIES 0 * 0 | |
| M PERFORMING LOGISTICS OR RESOURCE MANAGEMENT 66 16 2 | |
| ACTIVITIES | |
| N PERFORMING MEDICAL READINESS ACTIVITIES * 4 | |
| O PERFORMING ADMINISTRATIVE OR MANAGEMENT 12 50 94 | |
| ACTIVITIES | |
| P PERFORMING TRAINING ACTIVITIES 4 16 0 | |

^{*} Indicates less than 1 percent

TABLE 4

SELECTED BACKGROUND DATA FOR CAREER LADDER JOBS

| ОКТНО ТЕСН <u>JOB</u> 17 2% | % % | . % | · | 2 | | 1.4/E-5 64 117 6% 6% | |
|---|--|----------------------------|---------------------------|---|-------|--|---|
| ORTH TECF JOB 17 17 | 888 | 12,0 | 0 0 792 | 0 0 % | 0 | E-4/E-5 64 117 6% 65% | & |
| UROLOGY TECH JOB 25 3% | 92% | % 0 0 | 0 0 0 | 0 32% 0% | | E-5 65 139 0 52% | 171 |
| R | | | | | | | |
| ENT TECH JOB 20 | 85% | 0 0 15% | 10% 0 0 | %09 0 0 0 0 | 80 | E-4/E-5 72 94 15% 15% | 155 |
| S H E | , , | | , o | · _ | | | |
| CSS TECH <u>JOB</u> 12 | 839 | | 58% 0 0 | 0 %000 | 0 | E-4 76 80 33% 33% | . |
| SURGICAL SERVICES CLUSTER 478 63% | 84% . 41% | 000 | 51% 0 0 | 0 % 000 | 0 | E-3 61 72 57% 28% | I 4) |
| SEC | | | | | | | |
| | | | | | | AFMS) | |
| | | | | , | | JD 48 MOS T | A Transfer |
| | | | | | | REER FIEJ MENT (1- | 7 |
| UP APLE | TION: | | | | | RADE(S) HS IN CAI T ENLIST TISING | |
| NUMBER IN GROUP PERCENT OF SAMPLE | PERCENT IN CONUS DAFSC DISTRIBUTION: 4N131 | 4N131D 4N131D | 51 51B 51C | 51D 71 71B 71C | 91 | PREDOMINANT GRADE(S) AVERAGE MONTHS IN CAREER FIELD AVERAGE TAFMS PERCENT IN FIRST ENLISTMENT (1-48 MOS TAFMS) PERCENT SUPERVISING AVERAGE NUMBER OF TASKS PERFORMED | |
| NUMBE | PERCENT II DAFSC DIST 4N131 | 4N131D 4N131D 4N131D | 4N151 4N151B 4N151C | 4NISID 4NI71 4N171B 4N171C 4N171C | 4N191 | PREDON AVERA(AVERA(PERCEN PERCEN AVERA(| |

TABLE 4 (CONTINUED)

SELECTED BACKGROUND DATA FOR CAREER LADDER JOBS

| | CLINIC NCOIC JOB | SURGICAL LOGISTICS <u>JOB</u> | SUPV/ MGT JOB | SUPERINT 10 <u>B</u> |
|---|------------------------|-------------------------------------|----------------------------|--------------------------|
| NUMBER IN GROUP PERCENT OF SAMPLE PERCENT IN CONUS | 74 10% 74% | 14 2% 93% | 61 8% 89% | 5 1% 100% |
| DAFSC DISTRIBUTION: 4N131 4N131B 4N131C 4N131D | 1% 0 5% 1% | 14% 0 0 | 2% 0 0 | . 000 |
| 4N151 4N151B 4N151C 4N151D | 9% 0 55% 5% | 72% 0 0 7% | 24% 0 0 5% | 0000 |
| 4N171 4N171B 4N171C 4N171D | 0 0 20% 4% | % 0 0 | 64% 3% 0 | 80% 0 0 |
| 4N191 | 0 | 0 | 0 | 20% |
| PREDOMINANT GRADE(S) AVERAGE MONTHS IN CAREER FIELD AVERAGE TAFMS PERCENT IN FIRST ENLISTMENT (1-48 MOS TAFMS) | E-4 84 124 4% | E4 68 117 7% | E-6/E-7 151 193 0 | E-7 . 177 237 0 |
| PERCENT SUPERVISING AVERAGE NUMBER OF TASKS PERFORMED | 48% 213 | 56% | 93% | 40% |

break down sterile fields while scrubbed pass specimens to circulators pull surgical supplies, instruments, or equipment identify drugs or solutions prior to accepting transfer to sterile field while scrubbed

Personnel in this cluster average 6 years TAFMS. Personnel in this cluster are in the paygrades of E-2 through E-7 and most (51 percent) hold a 5-skill level (see Table 4). Members perform an average of 143 tasks. This job contains the highest number of members in their first enlistment (57 percent).

The first job identified with the cluster is the Entry-Level OR Technician. These individuals spend 60 percent of their time performing sterile operating room activities (Table 3, Duty D) and 16 percent of their time performing non-sterile preoperative and intraoperative OR activities (Table 3, Duty E and F). These 34 members perform an average of 56 tasks which consist of establishing sterile fields in OR while scrubbed, performing hand and arm scrubs, arranging sterile instruments and supplies on back tables while scrubbed, and passing instruments or supplies to operating team members using traditional techniques.

The second job within the cluster is comprised of 434 OR Technicians. The responsibilities of these respondents differ from those in the Entry-Level OR Technician Job, although they perform many of the same general tasks. Their distinguishing feature is the performance of tasks associated with CSS activities. They perform tasks, such as hand and arm scrubs, establishing sterile fields in OR while scrubbed, arranging sterile instruments and supplies on back tables while scrubbed, assembling instrument sets or equipment after cleaning, and cleaning instruments or equipment for storage or reprocessing.

The final job within the cluster is comprised of nine Phase II Training Instructors. These members are distinguished by the amount of time they spend performing administrative and training activities. They perform an average of 134 tasks, the majority of which are centered around conducting on-the-job training (OJT), counseling trainees on training progress, evaluating progress of trainees, maintaining training records or files, inspecting training materials or aids for operation suitability, and developing or procuring training materials or aids.

II. <u>CSS TECHNICIAN JOB (ST069)</u>. The 12 airman forming this job account for 2 percent of the survey sample. They perform a number of tasks dealing specifically with maintaining equipment, to include the cleaning and preparation of instruments and reusable supplies for terminal sterilization and decontamination. The CSS Technician serves as the main support function for the OR and clinic. Members in this job spend 82 percent of their duty time performing CSS activities (Table 3, Duty B) and 6 percent of their duty time performing medical readiness activities. They perform an average of 43 tasks and are distinguished by the time they spend performing the following tasks:

assemble instrument sets or equipment after cleaning wrap and label instrument sets for sterilization prepare and sterilize items using paper, plastic, or paper and plastic peel-packs inspect and identify instruments for operation, repair, or salvage clean instruments or equipment for storage or reprocessing load or unload CSS sterilizers prepare and sterilize items using rigid sterilization containers monitor CSS sterilizer effectiveness using biological indicators prepare surgical supplies or instruments from CSS stock fold linens for sterilization perform routine chemical disaffection of surgical instruments or supplies in CSS sort equipment for cleaning

Fifty-eight percent of these individuals hold the 5-skill level while 33 percent hold the 3-skill level. Seventy-five percent are in paygrade E-4 and E-5. This job contains the second highest number of members in their first enlistment (33 percent). The average time in the career field is 6 years with an average of 7 years TAFMS.

III. OTORHINOLARYNGOLOGY (ENT) TECHNICIAN JOB (ST128). The 20 members of this job are designated by the D-shred. They perform many of the same routine clinical functions as the "Slick" and Urology Technicians – answering appointment telephone lines, scheduling clinic patients' appointments, scheduling patients for surgery, breaking down sterile fields while scrubbed, passing instruments or supplies to operating team members using traditional techniques, and assisting surgeons in applying sterile drapes while scrubbed. While they may perform many of the same general tasks, their distinguishing feature is the performance of tasks associated with ENT activities, accounting for 8 percent of their relative job time. Accounting for only 3 percent of the survey sample, they perform an average of 133 tasks, with the majority of their time spent performing tasks under Duty D (Performing Sterile Operating Room Activities), Duty A (Performing General Clinical Activities), Duty M (Performing Logistics or Resource Management Activities), and Duty I (Performing ENT Activities). They are distinguished by the time they spend performing the following tasks:

remove foreign bodies from ears using suction method
remove foreign bodies from ears using alligator forceps
remove foreign bodies from ears using curettage method
remove foreign bodies from ears using wire loops
perform routine ear examinations with otoscopes
assist physicians with otorhinolaryngology procedures
schedule patients for surgery
assist physicians with otorhinolaryngology surgical procedures in clinic
break down sterile fields while scrubbed
pass instruments or supplies to operating team members using traditional techniques

assist surgeons in applying sterile drapes while scrubbed identify and properly manage dirty instruments or contaminated field establish sterile fields in OR while scrubbed

The "D" shred personnel primarily comprise the ENT Job (80 percent) with 60 percent holding the 5-skill level. Eighty percent are in the paygrades E-4 and E-5, averaging 8 years TAFMS.

IV. <u>UROLOGY TECHNICIAN JOB (ST102)</u>. The 25 respondents in this job belong to the B-shred and account for 3 percent of the survey sample. This job involves many of the same tasks performed by members of the ENT Technician Job, but the difference lies in the amount of time spent performing urology activities. Members within this job spend 25 percent of their duty time performing general clinical activities (Table 3, Duty A), 21 percent of their time performing sterile operating room activities (Table 3, Duty D), and nine percent of their time performing urology activities. They perform an average of 171 tasks which is the second highest for this career field. They are distinguished by the time they spend performing the following tasks:

assist physicians with urology procedures in clinic instill xylocaine jellies intraurethrally catheterize urology patients collect catheterized urine specimens collect clean catch urine specimens prepare contrast media for urologic procedures perform urodynamic tests, such as cystometrograms or urine flow assist physicians with urological surgery procedures prepare and drape patients for clinic procedures assist physicians with minimally invasive procedures prepare patients for clinic examinations assist physicians with endoscopic procedures

Sixty percent of these individuals hold the 5-skill level while 32 percent have a 7-skill level. Sixty-eight percent are in the paygrade E-5, with an additional 16 percent in paygrade E-4. These members average 12 years TAFMS with none in their first enlistment.

V. <u>ORTHOPEDIC TECHNICIAN JOB (ST066)</u>. Personnel performing the Orthopedic Technician Job hold the C-shred. This job involves applying and removing casts and splints as directed by health care providers, assembling and applying orthopedic traction devices, and instructing patient in using crutches, canes, and other orthopedic appliances. The 17 airmen performing this job (only 2 percent of the survey sample) spend 35 percent of their relative job

time performing orthopedic activities (Table 3, Duty J), 35 percent performing general clinical activities (Table 3, Duty A), and 14 percent performing activities (Table 3, Duty O). The average number of tasks performed is 88. Examples of tasks most commonly performed includes:

remove splints
remove casts
order x-rays
prepare patients for removal of casts or splints
apply short leg plaster or fiberglass casts
schedule clinic patients appointments
apply standard long arm plaster or fiberglass casts
remove sutures from clinic patients
apply standard short arm plaster or fiberglass casts
apply standard short arm plaster or fiberglass casts
apply short arm scaphoid plaster or fiberglass splints
remove skin staples from clinic patients
apply short leg plaster or fiberglass splints

Seventy-six percent of these individuals hold the 5-skill level. Eighty-two percent are in the paygrades E-4 and E-5, with an additional 12 percent in paygrade E-7. The average time in the career field is 5 years, with an average of 10 years TAFMS. Forty-seven percent of all members in this group are currently supervising others.

VI. <u>CLINIC NCOIC JOB (ST087)</u>. This is the supervisory job in the clinic. These members perform many of the same technical tasks as those in the other clinical jobs, but they spend an additional 13 percent of their time performing administrative or management activities (Table 3, Duty O). Performing the most tasks (average of 213) in the career field, 21 percent of their relative job time is spent performing general clinic activities (Table 3, Duty A), while 29 percent is spent performing sterile operating room activities and orthopedic activities (Table 3, Duties D and J). The diversity of the work members of this job perform is reflected by the following tasks:

pick up daily administrative distributions
receive supplies from medical logistics
order medical supplies using local purchase procedures
review SFs 513 (Medical Record – Consultation Sheet)
review patients health records prior to appointments or surgery
schedule clinic patients appointments
prepare patients for removal of casts or splints
apply short arm plaster or fiberglass splints, other than scaphoid or sugar tong
assist physicians with closed reduction of fractures
review backorder reports

establish sterile fields in OR while scrubbed coordinate standard medical supply purchases with medical materiel

This is a very diversified group with 80 percent of the personnel within the "C" shred, 10 percent within the "Slick", and 9 percent within the "D" shred (Table 4). Fifty-five percent of DAFSC 4N1X1C personnel hold the 5-skill level, while 20 percent hold a 7-skill level. Forty percent of these members are in the paygrade E-4, with an additional 34 percent in paygrade E-5. The average time in the career field is 7 years with an average of 10 years TAFMS.

VII. <u>SURGICAL LOGISTICS JOB (ST068)</u>. The 14 respondents in this job account for only 2 percent of the survey sample. They perform a number of tasks dealing specifically with maintaining organizational equipment or supply records. Because of the array of instruments and equipment needed for surgical procedures and the amount of supplies consumed, it is necessary to have separate personnel assigned to mange these resources. Members with this job spend 66 percent of their time performing logistics or resource management activities (Table 3, Duty M), 12 percent performing administrative or management activities (Table 3, Duty O), and 7 percent performing central sterile supply (CSS) activities (Table 3, Duty B). They perform an average of 58 tasks and are distinguished by the time they spend performing the following tasks:

verify receipt of supplies from medical logistics order medical supplies using local purchase procedures research data from vendors for equipment purchases or standard medical supply purchases review using activity issue/turn-in lists review backorder reports research supply catalogs or medical catalog (MEDCAT) supply listings receive supplies from medical logistics order medical supplies from USAF supply agencies, other than pharmacy or linen supplies coordinate standard medical supply purchases with medical materiel order nonmedical supplies using local purchase procedures prepare shopping guides maintain organizational equipment or supply records arrange consignment purchases with vendors, salespersons, or logistics

"Slick" personnel primarily comprise this job (93%) with seventy-one percent of these individuals holding the 5-skill level and 7 percent holding the 7-skill level. Fifty percent of these members are in the paygrade E-4, with an additional 36 percent in paygrades E-5. The average time in the career field is 6 years with an average 10 years TAFMS.

VIII. <u>SUPERVISORY AND MANAGEMENT (ST052)</u>. This job encompasses those administrative and management functions necessary for the operation of any medical environment. Comprising the second most senior and experienced individuals in the career ladder, these 61 members account for 8 percent of the survey sample. They spend almost half their duty day (48 percent) performing administrative or management activities and perform few, if any technical tasks. Thirty-two percent of their time is spent performing logistics or resource management activities and training activities. They are found supervising military personnel, participating in general meetings, establishing work assignments, and evaluating personnel for compliance with performance standards. Ninety-three percent of these individuals report supervisory responsibilities, supervising an average of five people. These airmen perform an average of 65 tasks. The following are representative of the work performed:

inspect personnel for compliance with military standards counsel subordinates concerning personal matters evaluate personnel for compliance with performance standards interpret policies, directives, or procedures for subordinates determine or establish work assignments or priorities write recommendations for awards or decorations write or indorse military performance reports maintain administrative files assign personnel to work areas or duty positions

Members of this job are the second most senior, as they average 13 years TAFMS and 16 years time in the career field. Primarily made up of the "Slicks" (90 percent), 64 percent of these individuals hold the 7-skill level, while 24 percent hold the 5-skill level. Seventy-eight percent of these members are in the paygrade of E-6 and E-7, while 18 percent are in the paygrade of E-5. Ninety-three percent of these individuals report supervising an average of 5 people.

IX. <u>SUPERINTENDENT JOB (ST033)</u>. These 5 members are the most experienced members in the survey, accounting for 1 percent of the survey sample. As with most specialties, there are nontechnical jobs performed by senior level personnel. Ninety-four percent of their relative job time is spent performing administrative or management activities (Table 3, Duty O), with an additional 6 percent spent performing medical readiness, logistics or resource management activities (Table 3, Duty M and N). Their primary responsibility is to ensure proper coordination of work activities within the hospital and clinic. These job incumbents perform an average of 28 tasks. The following tasks demonstrate the nature of work performed by these senior individuals:

evaluate personnel for promotion, demotion, reclassification, or special awards initiate personnel action requests conduct supervisory performance feedback sessions

interpret policies, directives, or procedures for subordinates initiate or maintain call rosters or workcenter pyramid recall rosters counsel subordinates concerning personal matters conduct general meetings, such as staff meetings, briefings, conferences, or workshops write correspondence, such as letters, point papers, or staff summary sheets develop or implement quality improvement (QI) programs

Members of this job are senior, as they average 20 years TAFMS and 15 years time in the career field. Eighty percent of these individuals hold the 7-skill level, while 20 percent old the 9-skill level. All members are in the paygrade of E-7. Forty percent of these individuals report supervising an average of 7 people.

Comparison of Current Jobs to Previous Survey Findings

The results of the specialty job analysis were compared to those of OSR AFPT 90-903-003, Surgical Services, dated March 1995. After reviewing the jobs identified in 1995, all of the groups with substantial numbers of personnel could be matched to similar jobs in the current study (see Table 5). Although, some comparable groups from 1995 to 1999 reflect different percentages of the sample, this variation could generally be attributed to modifications in the task list or to the analysis approach used.

The following jobs were identified in the 1995 career ladder structure, but did not have a direct match in the current study: Surgical Suite NCOIC Job, and Surgical Suite Urology Technician Job. Jobs found in the 1999 survey but not in the 1995 survey include the Clinic NCOIC Job, Entry-Level Operating Room (OR) Technician Job, Phase II Training Instructor Job, and Superintendent Job. Differences in job names reflect how tasks were grouped. Aside from these minor variations involving a very small number of personnel, the vast majority of the current sample were found to be performing jobs identified in 1995, thus displaying a relative stable career ladder over time.

Job Satisfaction Across Jobs

Job satisfaction data for identified job groups and clusters are provided in Table 6. An examination of these data can show how overall job satisfaction may be influenced by the type of job performed. Overall, job satisfaction was fairly high across specialty jobs, with a decrease in sense of accomplishment for the CSS Technician Job. Personnel in the Surgical Services Cluster, CSS Technician Job, Orthopedic Technician Job and Surgical Logistics Job showed low reenlistment intentions, the Clinic NCOIC Job showed the highest reenlistment intentions. Superintendents reported the highest percentage of intentions to retire. Job satisfaction was highest for the Clinic NCOIC Job and lowest for the CSS Technician Job.

SPECIALTY JOB COMPARISONS BETWEEN CURRENT AND 1995 SURVEYS

| 1995 SURVEY (N=699) | N=478) (N=434) General Surgery Technician Job (N=352) Surgical Suite NCOIC Let Al-77) | | TECHNICIAN JOB (N=12) CENTRAL STERILE SUPPLY JOB (N=14) | CENTRAL STERILE SUPPLY NCOIC JOB (N=7) | SURGICAL LOGISTICS JOB (N=15) | JOB (N=61) JOB (N=32) | | ; cian Job (N=34) - |
|------------------------|--|---|---|--|-------------------------------|--|---------------------------|---|
| CURRENT SURVEY (N=764) | SURGICAL SERVICES CLUSTER (N=478) Operating Room (OR) Technician Job (N=43) - | - UROLOGY TECHNICIAN JOB (N=25) OTORHINOLARYNGOLOGY (ENT) TECHNICIAN JOB (N=20) ORTHOPEDIC TECHNICIAN JOB (N=17) | CENTRAL STERILE SUPPLY (CSS) TE | | SURGICAL LOGISTICS JOB (N=14) | SUPERVISORY AND MANAGEMENT JOB (N=61) CLINIC NCOIC JOB (N=74) | SUPERINTENTDENT JOB (N=5) | SURGICAL SERVICES CLUSTER Entry-Level Operating Room (OR) Technician Job (N=34) |

Indicates no match in report* Matched

TABLE 6

JOB SATISFACTION INDICATORS FOR IDENTIFIED JOB GROUPS AND CLUSTERS (PERCENT MEMBERS RESPONDING)

| | SURGICAL SERVICES CLUSTER (N=478) | CSS TECH JOB (N=12) | ENT TECH JOB (N=20) | UROLOGY TECH JOB (N=25) | ORTHO TECH JOB (N=17) | CLINIC NCOIC JOB (N=74) |
|--|--|------------------------------|------------------------------|----------------------------------|--------------------------------|----------------------------------|
| EXPRESSED JOB INTEREST | | | | | | |
| INTERESTING SO-SO DULL | 83 10 7 | 50 25 25 | 80 10 10 | 76 16 8 | 88 9 9 | 89 7 4 |
| PERCEIVED USE OF TALENTS | | | | | | |
| FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL | 86 14 | 88 12 | 85 15 | 95 5 | 71 | 91 |
| PERCEIVED USE OF TRAINING | | | | | | |
| FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL | 91 9 | 84 16 | 80 | 92 | 76 | 91 |
| SENSE OF ACCOMPLISHMENT FROM JOB | | | | | | |
| SATISFIED NEUTRAL DISSATISFIED | 75 · 12 13 | 58 25 17 | 75 10 15 | 80 8 12 | 82 6 12 | 90. |
| REENLISTMENT INTENTIONS | | | | | | |
| YES, OR PROBABLY YES NO, OR PROBABLY NO PLAN TO RETIRE | 42 50 8 | 51 43 6 | 60 40 0 | 64 24 12 | 53 29 18 | 67 28 5 |

TABLE 6 (CONTINUED)

JOB SATISFACTION INDICATORS FOR IDENTIFIED JOB GROUPS AND CLUSTERS (PERCENT MEMBERS RESPONDING)

| (PERCEN | (PERCENT MEMBERS RESPONDING) | ING) | | |
|--|--|-------------------------------|--------------------------|--|
| | SURGICAL LOGISTICS JOB (N=14) | SUPV/ MGT JOB (N=61) | SUPERINT JOB (N=5) | |
| EXPRESSED JOB INTEREST | | | | |
| INTERESTING SO-SO DULL | 72 14 14 | 70 22 8 | 80 0 20 | |
| PERCEIVED USE OF TALENTS | | | | |
| FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL | 79 21 | 84 16 | 80 20 | |
| PERCEIVED USE OF TRAINING | | | | |
| FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL | 71 29 | 70 | 80 20 | |
| SENSE OF ACCOMPLISHMENT FROM JOB | | | | |
| SATISFIED NEUTRAL DISSATISFIED | 71 0 29 | 70 10 20 | 80 0 20 | |
| REENLISTMENT INTENTIONS | | | | |
| YES, OR PROBABLY YES NO, OR PROBABLY NO PLAN TO RETIRE | 42 50 8 | 59 5 36 | 40 0 60 | |

Summary

In summary, structure analysis reveals the Surgical Services career ladder to be quite heterogeneous, due to the diversity of tasks performed by those personnel designated as "Slicks" or belonging to the "B", "C", or "D" shred. One cluster and eight jobs were identified: Surgical Services Cluster, CSS Technician Job, ENT Technician Job, Urology Technician Job, Orthopedic Technician Job, Clinic NCOIC Job, Surgical Logistics Job, Supervisory and Management Job, and Superintendent Job.

ANALYSIS OF DAFSC GROUPS

An analysis of DAFSC groups, in conjunction with the analysis of the career ladder structure, is an important part of each occupational survey. The DAFSC analysis identifies differences in tasks performed at the various skill levels. This information may then be used to evaluate how well career ladder documents, such as the AFMAN 36-2108 *Airman Classification* and the Specialty Training Standard (STS) reflect what career ladder personnel are actually doing in the field and what is required of their members.

The comparison of DAFSCs has been divided into subsections representing the "Slick", "B" shred, "C" shred, and "D" shred. The "Slick" subsection discusses members holding the 3-, 5-, 7-, and 9-skill levels. The shred subsections discuss members holding 3-, 5-, and 7-skill levels.

The distribution of skill-level groups across the career ladder specialty jobs is displayed in Tables 7, while Table 8 offers another perspective by displaying the relative percent time spent on each duty across the skill-level groups. The Surgical Services career ladder has 70 percent of the sample holding either the 3- or 5-skill level. Three- and 5-skill level personnel spend the vast majority of their job time performing sterile operating room activities. A typical pattern of progression is present, with personnel spending more of their relative time on duties involving supervisory, managerial, and training tasks as they move upward toward the 7- or 9-skill level. It is also obvious, though, that 7-skill level personnel are still involved with technical task performance, as will be pointed out in the specific skill-level group discussions below.

Skill Level Descriptions

<u>DAFSC 4N131</u>. The 213 airmen in the 3-skill level group represent 28 percent of the survey sample. Ninety-one percent of the 3-skill level members are in Surgical Services Cluster and 2 percent are in the CSS Technician Job (see Table 7). They perform an average of 121 tasks. Performing a highly technical job, 83 percent of their relative duty time is devoted to technical duties such as performing sterile operating room activities, central sterile supply activities, nonsterile intraoperative operating room activities, performing operating room transport or outside float activities, nonsterile postoperative operating room activities, nonsterile preoperative room activities (see Table 8). Table 9 displays representative tasks performed by the highest percentages of these airmen.

<u>DAFSC 4N151</u>. The 320 airmen in the active duty 5-skill level group constitute 42 percent of the survey sample (largest DAFSC group of the survey) and perform an average of 165 tasks. Seventy-seven percent of these 5-skill level members are in the Surgical Services Cluster. (see Table 7). Performing a highly technical job, 62 percent of their relative job time is devoted to duties covering sterile operating room activities, central sterile supply activities, nonsterile preoperative operating room activities, nonsterile intraoperative operating room activities, nonsterile postoperative operating room activities, and operating room transport or outside float

TABLE 7

DISTRIBUTION OF AFSC 4N1X1 SKILL-LEVEL MEMBERS ACROSS CAREER LADDER JOBS (PERCENT MEMBERS RESPONDING)

| | DAFSC | DAFSC | DAFSC | DAFSC |
|---|--------------|---------|--------------|------------------|
| | (N=213) | (N=320) | (N=88) | 4IN 191 (N=2) |
| I. SURGICAL SERVICES CLUSTER | 91 | 77 | 41 | 50 |
| Entry Level Operating Room Technician Job Operating Room Technician Job Phase II Instructor | 7 84 0 | 68 | 0 40 1 | 0 50 0 |
| CENTRAL STERILE SUPPY (CSS) TECHNICIAN JOB | 2 | 2 | П | 0 |
| OTORHINOLARYNGOLOGY (ENT) TECHNICIAN JOB | * | * | - | 0 |
| UROLOGY TECHNICIAN JOB | 0 | 0 | 0 | 0 |
| V. ORTHOPEDIC TECHNICIAN JOB | * | 0 | 0 | 0 |
| CLINIC NCOIC JOB | * | 2 | 0 | 0 |
| SURGICAL LOGISTICS JOB | * | w. | - | . 0 |
| VIII. SUPERVISORY AND MANAGEMENT JOB | * | 5 | 44 | 0 |
| SUPERINTENDENT JOB | 0 | 0 | م | 50 |
| | 9 | 10 | 7 | 0 |
| | | | | |

TABLE 8

TIME SPENT ON DUTIES BY AFSC 4N1X1 SKILL-LEVEL GROUPS (RELATIVE PERCENT OF JOB TIME)

| Di | UTIES | DAFSC 4N131 (N=213) | DAFSC 4N151 (N=320) | DAFSC 4N171 (N=88) | DAF 4N1 (N= |
|----|---|---------------------------|---------------------------|--------------------------|-------------------|
| Α | PERFORMING GENERAL CLINICAL ACTIVITIES | 4 . | 4 | 2 | 0 |
| В | PERFORMING CENTRAL STERILE SUPPLY (CSS) ACTIVITIES | 19 | 14 | 9 | 2 |
| C | PERFORMING ANESTHESIA SUPPORT ACTIVITIES | 2 | 2 | 1 | * |
| D | PERFORMING STERILE OPERATING ROOM ACTIVITIES | 32 | 24 | 7 | 4 |
| E | PERFORMING NONSTERILE PREOPERATIVE OPERATING ROOM ACTIVITIES | 7 | 6 | 3 | 1 |
| F | PERFORMING NONSTERILE INTRAOPERATIVE OPERATING ROOM ACTIVITIES | 10 | 7 | 4 | 2 |
| G | PERFORMING NONSTERILE POSTOPERATIVE OPERATING ROOM ACTIVITIES | 7 | 6 | 2 | 2 |
| H | PERFORMING OPERATING ROOM TRANSPORT OR OUTSIDE FLOAT ACTIVITIES | 8 | 5 | 2 | 1 |
| I | PERFORMING OTORHINOLARYNGOLOGY (ENT) ACTIVITIES | * | * | . * | 0 |
| J | PERFORMING ORTHOPEDIC ACTIVITIES | 1 | 1 | * | * |
| K | PERFORMING UROLOGY ACTIVITIES | * | * | * | 0 |
| L | PERFORMING RESEARCH ACTIVITIES | * | * | 0 | Ö |
| M | PERFORMING LOGISTICS OR RESOURCE MANAGEMENT ACTIVITIES | 3 | 9 | 13 | 6 |
| N | PERFORMING MEDICAL READINESS ACTIVITIES | 3 | 4 | 4 | 9 |
| O | PERFORMING ADMINISTRATIVE OR MANAGEMENT ACTIVITIES | 2 | 11 | 41 | 64 |
| P | PERFORMING TRAINING ACTIVITIES | 1 | 6 | 11 | 8 |

^{*} Indicates less than 1 percent

REPRESENTATIVE TASKS PERFORMED BY DAFSC 4N131 PERSONNEL

| TASKS | | PERCENT MEMBERS PERFORMING (N=213) |
|---------------|---|---|
| | | (|
| D0126 | Establish sterile fields in OR while scrubbed | 93 |
| D0127 | Identify and properly manage dirty instruments or contaminated field | 92 |
| D 0133 | Perform hand and arm scrubs | 92 |
| D0124 | Don or doff sterile gowns or gloves | 92 |
| D0132 | Pass specimens to circulators | 92 |
| D0136 | Prepare and handle specimens while scrubbed | 92 |
| D0099 | Arrange sterile instruments and supplies on back tables while scrubbed | 91 |
| G0189 | Stock OR with sterile or nonsterile supplies | 91 |
| D 0129 | Label drugs or solutions within sterile field | 91 |
| D0134 | Perform preliminary cleaning of soiled instruments prior to return to CSS | 91 |
| D0120 | Assist surgeons in applying sterile drapes while scrubbed | 91 |
| D0123 | Dispose of sterile gowns or gloves | 91 |
| D 0122 | Correct breaks in sterile techniques by members of operating teams while scrubbed | 91 |
| D 0097 | Adjust Mayo instrument tray stands while scrubbed | 90 |
| D0121 | Break down sterile fields while scrubbed | 90 |
| D0131 | Pass instruments or supplies to operating team members using traditional techniques | 90 |
| D0128 | Identify drugs or solutions prior to accepting transfer to sterile field while scrubbed | 90 |
| E0150 | Pull surgical supplies, instruments, or equipment | 90 |
| D0135 | Perform sterile draping of surgical equipment, such as microscopes or x-ray units | 89 |
| D 0119 | Assist professional staff in performing counts of sponges, needles, instruments, or related supplies while scrubbed | 88 |
| E0143 | Open sterile supplies, such as muslin-wrapped, paper-wrapped, or peel- packaged sterile supplies | 88 |
| D 0098 | Adjust overhead operating lights while scrubbed | 88 |
| D 0118 | Assist professional staff in donning or doffing sterile gowns or gloves while scrubbed | 88 |
| D0125 | Don or doff surgical attire, other than sterile gowns or gloves, for operating | . 88 |

Average number of tasks performed = 121

activities (see Table 8). Table 10 displays representative tasks performed by the highest percentages of airmen. Table 11 displays those tasks that reflect differences between the 3- and 5-skill level groups. A review of the tasks reveals that 5-skill level airmen perform virtually the same technical tasks as do the 3-skill level members. However, a higher percentage of 5-skill level members perform supervisory or management tasks.

<u>DAFSC 4N171</u>. The 88 NCOs in the active duty 7-skill level group constitute 12 percent of the survey sample and perform an average of 141 tasks. Forty-four percent of these 7-skill level members are in the Supervisory and Management Job and 41 percent are in the Surgical Services Cluster (see Table 7). Sixty-nine percent of their relative job time is spent performing management, administrative, resource management, logistics, medical readiness, and training duties (see Table 8). An additional 30 percent of their time is spent performing technical tasks. Table 12 displays representative tasks performed by the highest percentages of airmen. Table 13 displays those tasks that differentiate between the 5- and 7-skill level groups and also reflects the supervisory responsibilities incumbent to the 7-skill level population. Tasks performed by higher percentages of 5-skill level personnel are technical and operational in nature, whereas higher percentages of 7-skill level personnel perform the higher level supervisory and management functions.

<u>DAFSC 4N191</u>. The 2 senior NCOs in the 9-skill level active duty group constitute less than 1 percent of the survey sample and perform an average of 100 tasks. Fifty percent of these 9-skill level members are in the Surgical Services Cluster with the other 50 percent in the Superintendent Job (see Table 7). Table 8 shows that 87 percent of their relative job time is spent in the administrative, management, logistics, medical readiness, and training duties (Duties M, N, O, and P). Table 14 clearly shows that these senior NCOs perform supervisory and management specific tasks. Table 15 displays those tasks that clearly show the differences between the 7- and 9-skill level groups. It also clearly reflects the upper-level management responsibilities' incumbent to the 9-skill level.

TRAINING ANALYSIS

Occupational survey data are sources of information, which can be useful in the development, and revision of relevant training programs for entry-level personnel. Factors used to evaluate entry-level AFSC 4N1X1 Surgical Services training include jobs being performed by first-enlistment (1-48 months TAFMS) personnel, overall distribution of first-enlistment personnel across career ladder jobs, percent first-job (1-24 months TAFMS) and first-enlistment members spent performing specific tasks or using specific equipment items, ratings of how much TE tasks should receive in formal training, and ratings of relative TD.

REPRESENTATIVE TASKS PERFORMED BY DAFSC 4N151 PERSONNEL

| | | PERCENT MEMBERS PERFORMING |
|----------------|---|----------------------------------|
| TASKS | | (N=320) |
| D0124 | Don or doff storile norms or alone | 02 |
| D0124 | Don or doff sterile gowns or gloves | 83 |
| D0134 D0126 | Perform preliminary cleaning of soiled instruments prior to return to CSS Establish sterile fields in OR while scrubbed | 82 |
| D0120 | Perform hand and arm scrubs | 82 |
| D0133 | | 82 |
| | Pass specimens to circulators | 81 |
| D0127 | Identify and properly manage dirty instruments or contaminated field | 81 |
| D0122 | Correct breaks in sterile techniques by members of operating teams while scrubbed | 81 |
| D0120 | Assist surgeons in applying sterile drapes while scrubbed | 81 |
| D0118 | Assist professional staff in donning or doffing sterile gowns or gloves while scrubbed | 80 |
| D0123 | Dispose of sterile gowns or gloves | 80 |
| D0129 | Label drugs or solutions within sterile field | 80 |
| D0128 | Identify drugs or solutions prior to accepting transfer to sterile field while scrubbed | 80 |
| D0136 | Prepare and handle specimens while scrubbed | 80 |
| D0119 | Assist professional staff in performing counts of sponges, needles, | 80 |
| D0099 | instruments, or related supplies while scrubbed | 00 |
| | Arrange sterile instruments and supplies on back tables while scrubbed | 80 |
| G0189 | Stock OR with sterile or nonsterile supplies | 80 |
| E0150 | Pull surgical supplies, instruments, or equipment | 80 |
| D0097 | Adjust Mayo instrument tray stands while scrubbed | 80 |
| E0143 | Open sterile supplies, such as muslin-wrapped, paper-wrapped, or peel-packaged sterile supplies | 79 |
| F0155 | Assist sterile team members with donning or removing surgical attire | 79 |
| D0121 | Break down sterile fields while scrubbed | 78 |
| D0098 | Adjust overhead operating lights while scrubbed | 78 |
| D0131 | Pass instruments or supplies to operating team members using traditional techniques | 78 |
| D0102 | Assist physicians with laparoscopic procedures | 76 |
| D0135 | Perform sterile draping of surgical equipment, such as microscopes or x-ray units | 76 |

Average number of tasks performed = 135

TABLE 11

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 4N131 AND DAFSC 4N151 PERSONNEL (PERCENT MEMBERS PERFORMING)

| PASKS B0064 Load or unload css sterilizers O0399 Conduct supervisory performance feedback sessions O0404 Counsel subordinates concerning personal matters | DAFSC 4N131 (N=213) 84 84 5 | DAFSC 4N151 (N=320) 65 41 43 | DIFFERENCE 19 -39 |
|---|--|---|-------------------|
| Counsel trainees on training progress Consult daily assignment sheets | 10 | 47 | -37 |
| Determine or establish work assignments or priorition | 14 | 46 | -36 |
| adust on the ich taining (OTT) | ∞ | 43 | -35 |
| | 21 | 54 | -34 |
| Evaluate progress of trainees | 7 | 39 | -33 |
| | 6 | 40 | -31 |
| Conduct supervisory orientations for newly assigned personnel | 3 | 34 | -31 |

REPRESENTATIVE TASKS PERFORMED BY DAFSC 4N171 PERSONNEL

| | | PERCENT MEMBERS |
|-------|--|--------------------|
| | | PERFORMING |
| TASKS | | (N=88) |
| | | |
| O0404 | Counsel subordinates concerning personal matters | 85 |
| O0433 | Inspect personnel for compliance with military standards | 85 |
| O0458 | Write recommendations for awards or decorations | 85 |
| O0422 | Evaluate personnel for compliance with performance standards | 82 |
| O0399 | Conduct supervisory performance feedback sessions | 82 |
| O0434 | Interpret policies, directives, or procedures for subordinates | 80 |
| O0423 | Evaluate personnel for promotion, demotion, reclassification, or special awards | 80 |
| O0396 | Conduct general meetings, such as staff meetings, briefings, conferences, or workshops | 80 |
| O0406 | Determine or establish work assignments or priorities | 80 |
| O0419 | Establish performance standards for subordinates | 78 |
| O0457 | Write or indorse military performance reports | 77 |
| P0468 | Determine training requirements | 77 |
| O0390 | Assign personnel to work areas or duty positions | 76 |
| O0437 | Maintain administrative files | 75 |
| O0409 | Develop or establish work methods or procedures | 75 |
| O0401 | Conduct supervisory orientations for newly assigned personnel | 75 |
| O0410 | Develop or establish work schedules | 74 |
| O0421 | Evaluate job hazards or compliance with Air Force Occupational Safety and Health (AFOSH) program | 73 |
| O0403 | Consult schedule of operations | 72 |
| O0449 | Schedule personnel for TDY assignments, leaves, or passes | 72 |
| O0453 | Write job or position descriptions | 70 |
| P0461 | Brief personnel concerning training programs or matters | 70 |
| O0430 | Initiate actions required due to substandard performance of personnel | 70 |

Average number of tasks performed = 141

TABLE 13

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 4N151 AND DAFSC 4N171 DAFSC PERSONNEL (PERCENT MEMBERS PERFORMING)

| TASKS | | DAFSC 4N151 (N=320) | DAFSC 4N171 (N=88) | DIFFERENCE |
|-------|--|---------------------------|--------------------------|------------|
| H0198 | Retrieve equipment or supplies for surgery from outside surgical suite | 99 | 34 | 32 |
| D0134 | Perform preliminary cleaning of soiled instruments prior to return to CSS | 82 | 51 | 31 |
| D0100 | Assist physicians with endoscopic procedures | 89 | . 38 | 30 |
| D0136 | Prepare and handle specimens while scrubbed | 80 | 50 | 30 |
| D0113 | Assist physicians with orthopedic surgery procedures | 29 | 36 | 30 |
| D0132 | Pass specimens to circulators | . 81 | 51 | 30 |
| D0099 | Arrange sterile instruments and supplies on back tables while scrubbed | 80 | 50 | 30 |
| D0126 | Establish sterile fields in OR while scrubbed | 82 | 52 | 30 |
| D0097 | Adjust Mayo instrument tray stands while scrubbed | 80 | 51 | 29 |
| 1 (| | 1 | | |
| 00449 | Schedule personnel for TDY assignments, leaves, or | 15 | 72 | -57 |
| 00458 | Write recommendations for awards or decorations | 30 | 85 | -55 |
| 00453 | Write job or position descriptions | 17 | 70 | -53 |
| 00431 | Initiate or maintain call rosters or workcenter pyramid recall rosters | 17 | 89 | -52 |
| 00423 | Evaluate personnel for promotion, demotion, reclassification, or special | 28 | 80 | -51 |
| | awards | | | |
| 00396 | Conduct general meetings, such as staff meetings, briefings, conferences, or workshops | 29 | 80 | -50 |
| 00421 | Evaluate job hazards or compliance with Air Force Occupational Safety | 24 | 73 | Ç |
| | and Health (AFOSH) program | † 3 | <i>C /</i> | 449 |
| 00433 | Inspect personnel for compliance with military standards | 37 | 85 | -49 |
| 00428 | Initiate personnel action requests | 12 | 09 | -49 |

TABLE 14

REPRESENTATIVE TASKS PERFORMED BY DAFSC 4N191 PERSONNEL

| TASKS | | PERCENT MEMBERS PERFORMING (N=2) |
|-------|--|---|
| O0423 | Evaluate personnel for promotion, demotion, reclassification, or special awards | 100 |
| O0458 | | 100 |
| | Write recommendations for awards or decorations | 100 |
| O0437 | Maintain administrative files | 100 |
| O0433 | Inspect personnel for compliance with military standards | 100 |
| O0434 | Interpret policies, directives, or procedures for subordinates | 100 |
| O0444 | Pick up daily administrative distribution | 100 |
| O0443 | Participate in QI programs | 100 |
| O0450 | Sort or file daily administrative distribution | 100 |
| O0431 | Initiate or maintain call rosters or workcenter pyramid recall rosters | 100 |
| O0404 | Counsel subordinates concerning personal matters | 100 |
| O0451 | Write correspondence, such as letters, point papers, or staff summary sheets | 100 |
| O0390 | Assign personnel to work areas or duty positions | 100 |
| O0391 | Assign sponsors for newly assigned personnel | 100 |
| O0396 | Conduct general meetings, such as staff meetings, briefings, conferences, or workshops | 100 |
| O0447 | Review mobility, contingency, disaster preparedness, or unit emergency or alert plans | 100 |
| O0405 | Destroy Privacy Act materials or documents | 100 |

Average number of tasks performed = 100

TABLE 15

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 4N171 AND DAFSC 4N191 PERSONNEL (PERCENT MEMBERS PERFORMING)

| Develop or implement quality improved Draft budget requirements Position sterile tables or related equipm microscopes, or lasers Develop organizational or functional classes be propered by self-inspection or self-assessm Monitor trainee progress in 7-skill level Perform surgical skin cleansings Break down sterile fields while scrubbe Adjust Mayo instrument tray stands whereform operator maintenance inspection of the perform communications security (COI Initiate requests for publications or form Review mobility, contingency, disaster or alert plans Sort or file daily administrative distribution Participate in QI programs Remove casts Pick up daily administrative distribution Don or doff chemical warfare personal | | | DAFSC 4N171 | DAFSC 4N191 | |
|--|--------|--|----------------|----------------|------------|
| Develop or implement quality improved Draft budget requirements Position sterile tables or related equipment or serile tables or related equipment or serile tables or related equipment or self-assessmance or self-assessmance or self-assessmance or self-inspection or self-assessmance or self-inspection or self-assessmance or serile fields while scrubbe Adjust Mayo instrument tray stands whereform operator maintenance inspection or self-assessmance or alert plans Sort or file daily administrative distribution Participate in QI programs Remove casts Pick up daily administrative distribution Don or doff chemical warfare personal | TASKS | | (N=88) | (N=2) | DIFFERENCE |
| Draft budget requirements Draft budget requirements Position sterile tables or related equipment or serile tables or related equipment or serile tables or related equipment or self-assessm. Develop organizational or functional of Develop self-inspection or self-assessm. Monitor trainee progress in 7-skill level Perform surgical skin cleansings Break down sterile fields while scrubbe Adjust Mayo instrument tray stands whereform operator maintenance inspection of the series of the ser | 00414 | Davidon or implement and it. | | | |
| Position sterile tables or related equipment microscopes, or lasers Develop organizational or functional classessmand or functional classessmand or functional classes be perform surgical skin cleansings Break down sterile fields while scrubbe Adjust Mayo instrument tray stands whereform operator maintenance inspection or alerform communications security (COI linitate requests for publications or for Review mobility, contingency, disaster or alert plans Sort or file daily administrative distribution Participate in QI programs Remove casts Pick up daily administrative distributior Don or doff chemical warfare personal | -11-00 | Develop of implement quanty improvement (Q1) programs | 28 | * | 58 |
| Position sterile tables or related equipmenicroscopes, or lasers Develop organizational or functional classessma Monitor trainee progress in 7-skill level Perform surgical skin cleansings Break down sterile fields while scrubbe Adjust Mayo instrument tray stands whereform operator maintenance inspection of the perform communications security (COI Initiate requests for publications or for Review mobility, contingency, disaster or alert plans Sort or file daily administrative distribute Participate in QI programs Remove casts Pick up daily administrative distribution Don or doff chemical warfare personal | M0328 | Draft budget requirements | 57 | * | 57 |
| microscopes, or lasers Develop organizational or functional cl Develop self-inspection or self-assessm Monitor trainee progress in 7-skill level Perform surgical skin cleansings Break down sterile fields while scrubbe Adjust Mayo instrument tray stands wh Perform operator maintenance inspection Initiate requests for publications or form Review mobility, contingency, disaster or alert plans Sort or file daily administrative distribut Participate in QI programs Remove casts Pick up daily administrative distribution Don or doff chemical warfare personal | F0163 | Position sterile tables or related equipment, such as monitors, | 56 | * | . 95 |
| Develop organizational or functional of Develop self-inspection or self-assessm Monitor trainee progress in 7-skill level Perform surgical skin cleansings Break down sterile fields while scrubbe Adjust Mayo instrument tray stands wh Perform operator maintenance inspection operator maintenance inspection initiate requests for publications or for Review mobility, contingency, disaster or alert plans Sort or file daily administrative distribut Participate in QI programs Remove casts Pick up daily administrative distributior Don or doff chemical warfare personal | | microscopes, or lasers | | | 2 |
| Develop self-inspection or self-assessm Monitor trainee progress in 7-skill level Perform surgical skin cleansings Break down sterile fields while scrubbe Adjust Mayo instrument tray stands wh Perform operator maintenance inspection initiate requests for publications or for Review mobility, contingency, disaster or alert plans Sort or file daily administrative distributed Participate in QI programs Remove casts Pick up daily administrative distributior Don or doff chemical warfare personal | 00407 | Develop organizational or functional charts | 98 | * | |
| Monitor trainee progress in 7-skill level Perform surgical skin cleansings Break down sterile fields while scrubbe Adjust Mayo instrument tray stands wh Perform operator maintenance inspectic Perform communications security (COI Initiate requests for publications or for Review mobility, contingency, disaster or alert plans Sort or file daily administrative distribute Participate in QI programs Remove casts Pick up daily administrative distribution Don or doff chemical warfare personal | 00408 | Develop self-inspection or self-assessment program checklists | 0 4 | · • | 30 |
| Perform surgical skin cleansings Break down sterile fields while scrubbe Adjust Mayo instrument tray stands wh Perform operator maintenance inspection Initiate requests for publications or for Review mobility, contingency, disaster or alert plans Sort or file daily administrative distribut Participate in QI programs Remove casts Pick up daily administrative distributior Don or doff chemical warfare personal | 00100 | Manage and a second of the sec | 20 | * | . 56 |
| Perform surgical skin cleansings Break down sterile fields while scrubbe Adjust Mayo instrument tray stands wh Perform operator maintenance inspection Perform communications security (COI Initiate requests for publications or form Review mobility, contingency, disaster or alert plans Sort or file daily administrative distribut Participate in QI programs Remove casts Pick up daily administrative distribution Don or doff chemical warfare personal | F0400 | INIONITOT Trainee progress in /-skill level read-ahead modules | 53 | * | 53 |
| Break down sterile fields while scrubbe Adjust Mayo instrument tray stands whereform operator maintenance inspection operator maintenance inspection communications security (COI Initiate requests for publications or for Review mobility, contingency, disaster or alert plans Sort or file daily administrative distribution Participate in QI programs Remove casts Pick up daily administrative distribution Don or doff chemical warfare personal | F0161 | Pertorm surgical skin cleansings | 52 | * | 63 |
| Adjust Mayo instrument tray stands whereform operator maintenance inspection perform communications security (COI Initiate requests for publications or form Review mobility, contingency, disaster or alert plans Sort or file daily administrative distribution Participate in QI programs Remove casts Pick up daily administrative distribution Don or doff chemical warfare personal | D0121 | Break down sterile fields while scrubbed | 55 | * | 20 |
| Perform operator maintenance inspective perform operator maintenance inspective perform communications security (COI Initiate requests for publications or form Review mobility, contingency, disaster or alert plans Sort or file daily administrative distribution Participate in QI programs Remove casts Pick up daily administrative distribution Don or doff chemical warfare personal | D0097 | Adingt Mann instrument trans at and will and | 70 | <u>.</u> | 2.5 |
| Perform operator maintenance inspection perform communications security (COI Initiate requests for publications or form Review mobility, contingency, disaster or alert plans Sort or file daily administrative distribution Participate in QI programs Remove casts Pick up daily administrative distribution Don or doff chemical warfare personal | 1,000 | Aujust iviayo ilish ulilelit tray stands while scrubbed | 51 | * | 51 |
| Perform communications security (COI Initiate requests for publications or form Review mobility, contingency, disaster or alert plans Sort or file daily administrative distribution Participate in QI programs Remove casts Pick up daily administrative distribution Don or doff chemical warfare personal | E0146 | Fertorm operator maintenance inspections of OR equipment | 51 | * | 51 |
| Perform communications security (COI Initiate requests for publications or form Review mobility, contingency, disaster or alert plans Sort or file daily administrative distributed Participate in QI programs Remove casts Pick up daily administrative distribution Don or doff chemical warfare personal | | | | | |
| Initiate requests for publications or forr Review mobility, contingency, disaster or alert plans Sort or file daily administrative distribution Participate in QI programs Remove casts Pick up daily administrative distribution Don or doff chemical warfare personal | N0380 | Perform communications security (COMSEC) or | 44 | 100 | -56 |
| Review mobility, contingency, disaster or alert plans Sort or file daily administrative distribution Participate in QI programs Remove casts Pick up daily administrative distribution Don or doff chemical warfare personal | 00429 | Initiate requests for publications or forms | 45 | 100 | ??. |
| Sort or file daily administrative distribution participate in QI programs Remove casts Pick up daily administrative distribution Don or doff chemical warfare personal | 00447 | Review mobility, contingency, disaster preparedness, or unit emergency or alert plans | . 45 | 100 | -55 |
| Participate in QI programs Remove casts Pick up daily administrative distribution Don or doff chemical warfare personal | 00450 | Sort or file daily administrative distribution | 22 | 100 | 70 |
| Remove casts Pick up daily administrative distribution Don or doff chemical warfare personal | 00443 | Particinate in OI programs | 1 1 | 100 | -40 |
| Pick up daily administrative distribution Don or doff chemical warfare personal | 10284 | Demotion confe | 23 | 001 | -45 |
| Don or doff chemical warfare personal | 70264 | Mentove casts | 2 | 50 | -45 |
| Don or doff chemical warfare personal | 200444 | rick up daily administrative distribution | 26 | 100 | -44 |
| | IN0363 | | 29 | 100 | -41 |
| · | 58105 | Log patient names into photobooks | 10 | 50 | -40 |

First-Enlistment Personnel

In this study, there are 300 AFSC 4N1X1 members in their first enlistment (1-48 months TAFMS), representing 39 percent of all surveyed AFSC 4N1X1 personnel. These personnel are primarily in the Surgical Services Cluster (see Figure 5). Table 16 shows the relative percent of time spent across duties by first-enlistment AFSC 4N1X1 members. The largest percent of their time (32 percent) is spent performing tasks related to sterile operating room activities. Another 17 percent is spent performing central sterile supply activities. Representative tasks performed by members in this group are listed in Table 17. Examples of these tasks include arranging sterile instruments and supplies on back tables while scrubbed, performing hand and arm scrubs, establishing sterile fields in OR while scrubbed, and passing instruments or supplies to operating team members using traditional techniques.

Table 18 presents a short list of special tools or equipment used or operated by AFSC 4N1X1 first-enlistment personnel. Some examples of this equipment include the steam sterilizer, electrical control operating tables, manual control operating tables, lead vests, laparoscopes and accessories, and gravity displacement steam sterilizers.

Training Emphasis (TE) and Task Difficulty (TD) Data

TE and TD data are secondary task factors that can help training development personnel decide which tasks to emphasize for entry-level training. These ratings, based on the judgments of senior career ladder NCOs, provide a rank-ordering of those tasks considered important for airmen with 1-48 months TAFMS training (TE) and a measure of the relative task difficulty (TD). When combined with data on the percentages of entry-level personnel performing tasks, comparisons can be made to determine if training adjustments are necessary. For example, tasks receiving high ratings on both task factors (TE and TD), accompanied by moderate to high percentages for performance may warrant resident training. Those tasks receiving high task factor ratings, but low percentages for performance, may be more appropriately planned for OJT programs within the career ladder. Low task factor ratings may highlight tasks best omitted from training for new personnel. These decisions must be weighed against percentages of personnel performing the tasks, command concerns, and criticality of the tasks.

To assist technical school personnel, AFOMS developed a computer program that incorporates these secondary factors and the percentage of 1-48 months TAFMS personnel performing tasks to produce an Automated Training Indicators (ATI) for each task. These indicators correspond to training decisions listed and defined in the Training Decision Logic Table found in Attachment 2, AETCI 36-2601, Occupational Analysis Program, and allows course personnel to quickly focus attention on those tasks which are most likely to qualify for resident course consideration.

Tasks having the highest TE ratings for AFSC 4N1X1 personnel with 1-48 months TAFMS are listed in Table 19. Included for each task are the percentages of 1-48 months TAFMS (1ST ENL) personnel performing each task and the TD ratings. As illustrated in the table, tasks with

4N1X1 FIRST ENLISTMENT PERSONNEL (N = 300)

Not Grouped **%**8 Other 2% Surgical Services Cluster %06

FIGURE 6

*Other: CSS Tech ORTHO Tech

ENT Tech Surgical Logistics

RELATIVE PERCENT OF TIME SPENT ACROSS DUTIES BY FIRST-ENLISTMENT AFSC 4N1X1 PERSONNEL

| | | PERCENT |
|----|--|---------|
| ъ. | TMYPO | TIME |
| Di | JTIES | SPENT |
| | | |
| Α | PERFORMING GENERAL CLINICAL ACTIVITIES | 5 |
| В | PERFORMING CENTRAL STERILE SUPPLY (CSS) ACTIVITIES | 17 |
| С | PERFORMING ANESTHESIA SUPPORT ACTIVITIES | 2 . |
| D | PERFORMING STERILE OPERATING ROOM ACTIVITIES | 32 |
| E | PERFORMING NONSTERILE PREOPERATIVE OPERATING ROOM | 7 |
| | ACTIVITIES | |
| F | PERFORMING NONSTERILE INTRAOPERATIVE OPERATING ROOM | 11 |
| | ACTIVITIES | |
| G | PERFORMING NONSTERILE POSTOPERATIVE OPERATING ROOM | 7 |
| | ACTIVITIES | |
| H | PERFORMING OPERATING ROOM TRANSPORT OR OUTSIDE FLOAT | 8 |
| | ACTIVITIES | |
| I | PERFORMING OTORHINOLARYNGOLOGY (ENT) ACTIVITIES | * |
| J | PERFORMING ORTHOPEDIC ACTIVITIES | I |
| K | PERFORMING UROLOGY ACTIVITIES | * |
| L | PERFORMING RESEARCH ACTIVITIES | * |
| M | PERFORMING LOGISTICS OR RESOURCE MANAGEMENT ACTIVITIES | 3 |
| N | PERFORMING MEDICAL READINESS ACTIVITIES | 3 |
| 0 | PERFORMING ADMINISTRATIVE OR MANAGEMENT ACTIVITIES | 2 |
| P | PERFORMING TRAINING ACTIVITIES | 1 |
| | | |

^{*} Indicates less than 1 percent

NOTE: Time spent does not total 100 percent due to rounding

REPRESENTATIVE TASKS PERFORMED BY FIRST-ENLISTMENT AFSC 4N1X1 PERSONNEL

| | | PERCENT MEMBERS PERFORMING (N=300) |
|---------------|---|---|
| TASKS | | (14-300) |
| | t t landa a bilancia de la combina | 92 |
| D0099 | Arrange sterile instruments and supplies on back tables while scrubbed | 93 |
| D0133 | Perform hand and arm scrubs | 93 |
| D0126 | Establish sterile fields in OR while scrubbed | 90 |
| D 0131 | Pass instruments or supplies to operating team members using traditional techniques | - |
| D0134 | Perform preliminary cleaning of soiled instruments prior to return to CSS | 93 |
| D0127 | Identify and properly manage dirty instruments or contaminated field | 93 |
| D0124 | Don or doff sterile gowns or gloves | 92 |
| G0189 | Stock OR with sterile or nonsterile supplies | 88 |
| D0129 | Label drugs or solutions within sterile field | 93 |
| D0121 | Break down sterile fields while scrubbed | 91 |
| D0097 | Adjust Mayo instrument tray stands while scrubbed | 91 |
| D0108 | Assist physicians with general surgery procedures | 86 |
| D0118 | Assist professional staff in donning or doffing sterile gowns or gloves while scrubbed | 89 |
| D 0119 | Assist professional staff in performing counts of sponges, needles, | 93 |
| | instruments, or related supplies while scrubbed | |
| D0132 | Pass specimens to circulators | 93 |
| D0128 | Identify drugs or solutions prior to accepting transfer to sterile field while scrubbed | 91 |
| D0136 | Prepare and handle specimens while scrubbed | 92 |
| D0120 | Assist surgeons in applying sterile drapes while scrubbed | 91 |
| D0123 | Dispose of sterile gowns or gloves | 90 |
| E0150 | Pull surgical supplies, instruments, or equipment | 87 |
| D 0122 | Correct breaks in sterile techniques by members of operating teams while scrubbed | 90 |
| E0143 | Open sterile supplies, such as muslin-wrapped, paper-wrapped, or peel- packaged sterile supplies | 88 |
| D0125 | Don or doff surgical attire, other than sterile gowns or gloves, for operating room (OR) activities | 87 |

Average number of tasks performed = 121

SPECIAL TOOLS OR EQUIPMENT USED OR OPERATED BY AFSC 4N1X1 FIRST-ENLISTMENT PERSONNEL (PERCENT MEMBERS RESPONDING)

| SPECIAL TOOLS/EQUIPMENT | IST ENL |
|---|------------|
| STECHE TOOLS/EQUITMENT | (N=300) |
| Steam (Flach) Starilizara | |
| Steam (Flash) Sterilizers Floatrical Control Operating (Supplied) Tables | 84 |
| Electrical Control Operating (Surgical) Tables | 80 |
| Manual Control Operating (Surgical) Tables | 7 9 |
| Lead Vests | 78 |
| Laparoscopes and Accessories | 77 |
| Gravity Displacement Steam Sterilizers | 75 |
| Fiber Optic Light Sources | 73 |
| Hand Tables | 73 |
| Surgical Stapling Devices | 71 |
| Stationary Suction Units | 70 |
| Compressed Gas Tanks | 69 |
| Solution Warming Cabinets | 68 |
| Prevacuum High-Temperature Sterilizers | 68 |
| Arthoscopes and Accessories | 65 |
| Electrosurgical Units | 64 |
| Flexible Fiber Optic Endoscopes | 64 |
| Specialized Retractors | 63 |
| Sigmoidoscopes and Accessories | 61 |
| Cast Carts | 58 |
| Microscopic Instruments | 58 |
| Stationary Operating (Surgical) Tables | 57 |
| Blood Pressure Monitoring Equipment | 53 |
| Int & Ext Ortho Fracture Fixation Instruments | 52 |
| Colonoscopes and Accessories | 51 |
| Defibrillators | 50 |
| Rigid Endoscopes | 49 |
| Pulse Oxymeters | 49 |
| Heat Sealers | 48 |
| Orthopedic Fracture Tables and Accessories | 46 |
| Cystoscopes and Accessories | 43 |
| Doppler Units | 38 |
| Harmonic Scalpels | 37 |
| Nerve Stimulators | 36 |
| Bronchoscopes and Accessories | 31 |
| Powered Dermatomes | 31 |
| Obstetric/Delivery Room Tables | 31 |
| Intravenous (IV) Infusion Pumps | 30 |
| Lasers and Accessories | 30 |

TABLE 19

EXAMPLES OF AFSC 4N1X1 TASKS WITH HIGHEST TRAINING EMPHASIS RATINGS

| | | Ş | PERCENT 1ST ENL | |
|-------|--|------|--------------------|--------------|
| TASKS | | EMP* | PERFORM (N=300) | TSK DIF** |
| ; | | | | |
| D0122 | Correct breaks in sterile techniques by members of operating team s while scrubbed | 8.19 | 06 | 4.71 |
| 07100 | Establish Sterne fields in OK while scrubbed | 8.19 | 94 | 4.7 |
| 07100 | I that demonstrates or solutions prior to accepting transfer to sterile fields while scrubbed | 8.04 | 91 | 4.63 |
| D0127 | Lauct diugs of solution within sterile field | 7.93 | 93 | 4.41 |
| D0127 | Deferm hand and contaminated field | 7.89 | 93 | 4.97 |
| E0173 | Once the state and affile Schios | 7.89 | 93 | 4.02 |
| E0143 | Open sterne supplies, such as muslin-wrapped, paper-wrapped, or peel-packaged sterile supplies | 7.78 | 88 | 4.28 |
| P0124 | Don't induit sterile gowns or gloves | 7.74 | 92 | 4.14 |
| 10100 | rass instruments or supplies to operating team members using traditional techniques | 7.70 | 06 | 4.72 |
| E0160 | Establish patient identity prior to transport to surgery | 7.70 | 80 | 3.87 |
| 00100 | Activity or eaks in sterile techniques by members of operating teams while circulating | 7.70 | 84 | 4.72 |
| 20113 | Assist professional start in performing counts of sponges, needles, instruments, or related supplies while scrubbed | 7.59 | 68 | 4.58 |
| D0130 | Pass instruments or supplies to operating team members using hands-free technique | 7.59 | 79 | 4.61 |
| 00100 | Applied and handle specimens while scrubbed | 7.59 | 92 | 4.60 |
| 00110 | Assist protessional start in domning or doffing sterile govers or gloves while scrubbed | 7.56 | 68 | 3.85 |
| F0142 | Assist surgeous in applying sterne drapes while scrubbed Fetshlish starilo fields in On a missistant and the second secon | 7.56 | 91 | 4.44 |
| R0069 | Monitor CSS statistics of optimized the circulator | 7.52 | 82 | 4.45 |
| D0099 | Arrange sterile instruments and summing a teril and a terile and summing and s | 7.44 | 58 | 4.66 |
| F0156 | Assist surgeons in smalling and supplies on back (ables while scribbed | 7.44 | 92 | 4.50 |
| | Assess surgeous in applying sterne drapes while circulating | 7.44 | 74 | 4.31 |

 ^{*} Mean TE Rating is 3.13, Standard Deviation is 2.24 (High TE = 5.37)
 ** Average TD Rating is 5.00, Standard Deviation is 1.00

^{*}

TABLE 20

AFSC 4N1X1 TASKS WITH HIGHEST TASK DIFFICULTY RATINGS

| | TNG | EMP* | 4 04 | 3.78 | 4.33 | 56 | 20 | 33 | ; 22 | 5.50 | 75.5 | 20,50 |) (| 1.22 | | .59 | 4.26 | 0 | 67 | . 61 | . T. | 27.8 | .30 |
|----------------------------|----------------|----------|-------|-------|-------|-------|--------------|-------|---------|-------|-------|-------|----------------|--|-------|---|--|---------|--------|-------|-------|--------|---|
| PERCENT MEMBERS PERFORMING | DAFSC 4NI51 | (N=320) | 17 | 17 | 27 | 2 | 3 | 2 | 2 | 15 | 29 | 2 | | <u>.</u> 01 | | 7 | 27 | 2 | 7 | , | 2 | ~ | |
| MEMBERS F | DAFSC 4N131 | (IN-Z13) | 26 | 15 | 31 | 7 | د | 0 | - | 55 | 79 | 7 | - | 5 | • | - - ; | 35 | | _ | 3 | 2 | S | 0 |
| PERCENT | 1ST ENL | (14-300) | 23 | 15 | 36 | က | | 0 | 1 | 55 | 77 | 7 | | 7 | • | - ; | 36 | | ÷ | 2 | | 4 | 0 |
| • | TSK DIF* | | 7.08 | 96.9 | 6.84 | 89.9 | 6.53 | 6.51 | 6.51 | 6.51 | 6.49 | 6.44 | 6.39 | 98.9 | 36 7 | 0.35 | 6.35 | 6.34 | 6.34 | 6.33 | 6.32 | 6.31 | 6.30 |
| | KS | | | | _ | | | | | | _ | - | | 9 Develop formal course curricula, plans of instruction (POIs), or specialty | • | Assist physicians with orbithalmology cur | Incert arterial pressure lines on research | | | | | | s Perform hematocrit readings on research animals |
| | TASKS | | D0109 | D0107 | 10245 | 10220 | 10217 | 10312 | 11007 | D0139 | D0113 | 10274 | 30264 | F0469 | J0271 | D0111 | 1.0308 | 10257 | 102601 | 50701 | 30243 | 1 0212 | L0313 |

* Average TD Rating is 5.00, Standard Deviation = 1.00
** Mean TE Rating is 3.13, Standard Deviation is 2.24 (High TE = 5.37)

the highest TE ratings deal with sterile operating room activities, nonsterile preoperative operating room activities, central sterile supply activities, and nonsterile intraoperative operating room activities. These tasks are performed by high percentages of 1-48 months TAFMS personnel.

Table 20 lists the tasks having the highest TD ratings. The percentages of 1-48 months TAFMS, 3- and 5-skill level personnel performing, and TE ratings are also included for each task. Many of the tasks with the highest TD ratings involve highly technical tasks involving sterile operating room activities and orthopedic activities. Most are performed by low percentages of personnel.

Various lists of tasks, accompanied by TE and TD ratings, are contained in the **TRAINING EXTRACT** package and should by reviewed in detail by technical school personnel. For a more detailed explanation of TE and TD ratings, see <u>Task Factor Administration</u> in the **SURVEY METHODOLOGY** section of this report.

Specialty Training Standard (STS) Analysis

A comprehensive review of the AFSC 4N1X1 STS, dated April 1997, was made by comparing survey data to STS elements. To assist in the examination of the STS, technical school SMEs from the 383rd Training Squadron, Sheppard AFB TX, matched JI tasks to appropriate sections and subsections of the STS. Elements with performance objectives were reviewed in terms of TE, TD, and percent members performing information, using the guidance provided in AETC Instruction 36-2601 and AFI 36-2623. STS paragraphs containing general knowledge information, subject-matter knowledge requirements, or supervisory responsibilities were not reviewed. Typically, STS elements matched to tasks which have sufficiently high TE and TD ratings and are performed by at least 20 percent of personnel in appropriate experience of skill-level groups (such as first-enlistment (1-48) months TAFMS, and 5- and 7-skill level groups) should be considered for inclusion in the STS. Likewise, elements matched to tasks with less than 20 percent performing in all of these groups should be considered for deletion from the STS.

Using this standard approach, only 5 of the 4N1X1 STS paragraphs did not have matched tasks with at least 20 percent members performing when compared to the criterion groups mentioned above (see Table 21). Training personnel and SMEs should review these elements to determine if they warrant remaining in the STS.

Tasks not matched to any paragraph of the STS are listed at the end of the STS computer listing. Table 22 lists examples of tasks, which were performed by 20 percent or more of criterion groups, but not matched to any STS item. Most of these tasks are rated high in TE and TD and have high percent members performing. Training personnel and SMEs should review the tasks not referenced listing for possible inclusion in the STS.

TABLE 21

STS AFSC 4N1X1 ITEMS NOT SUPPORTED BY SURVEY DATA

| ST DAFSC | | | | MEMBE | PERCENT MEMBERS PERFORMING | RMING | | |
|--|-------------|---|-------------|-----------------------|-------------------------------|---------------------------|--------------|--|
| Catherizations 1.93 8 7 K0287 Catheterize urology patients 1.93 8 7 Perform macrourinalysis 98 1 0 1 K0295 Perform macroscopic urinalysis, such as dipsticking 98 1 0 1 Standard short arm 10273 Apply standard short arm plaster or fiberglass casts 1.07 2 3 3 Standard long arm 10272 Apply standard long arm plaster or fiberglass casts 1.07 2 1 3 Hilger nerve stimulation 10219 Perform Hilger nerve stimulation 44 1 1 2 | 3 | S (WITH SELECTED MATCHED TASKS) | TNG EMP* | 1ST ENL (N=300) | DAFSC 4N131 (N=213) | DAFSC 4N151 (N=320) | TSK DIF** | |
| K0287 Catheterize urology patients 1.93 8 7 Perform macrourinalysis 98 1 0 1 K0295 Perform macroscopic urinalysis, such as dipsticking .98 1 0 1 Standard short arm 10273 Apply standard short arm plaster or fiberglass casts 1.07 2 3 3 Standard long arm 30272 Apply standard long arm plaster or fiberglass casts 1.07 2 1 3 Hilger nerve stimulation 444 1 1 2 | | Catherizations | | | · | | | |
| Ferform macrourinallysis98101Standard short arm1.07233Standard short arm1.07233Standard long arm1.07213Hilger nerve stimulation1.0721310219 Perform Hilger nerve stimulation44112 | | K0287 Catheterize urology patients | 1.93 | ∞ | & | 7 | 5.48 | |
| K0295 Perform macroscopic urinalysis, such as dipsticking.98101Standard short arm J0273 Apply standard long arm1.07233Standard long arm Hilger nerve stimulation1.07213Hilger nerve stimulation.44112 | | Perform macrourinalysis | | | | | | |
| Standard short arm 10273 Apply standard short arm plaster or fiberglass casts Standard long arm 10272 Apply standard long arm plaster or fiberglass casts Hilger nerve stimulation 10219 Perform Hilger nerve stimulation 44 1 1 2 | | K0295 Perform macroscopic urinalysis, such as dipsticking | 86. | — | 0 | - | 5.37 | |
| Standard long arm 1.07 2 3 3 Standard long arm 1.07 2 1 3 3 Standard long arm plaster or fiberglass casts 1.07 2 Apply standard long arm plaster or fiberglass casts Hilger nerve stimulation 10219 Perform Hilger nerve stimulation 44 1 1 2 | -: | 1 | | | | | - | |
| Standard long arm J0272 Apply standard long arm plaster or fiberglass casts Hilger nerve stimulation 1.07 2 1 3 Hilger nerve stimulation 44 1 1 2 | | | 1.07 | 5 | 3 | 3 | 5.77 | |
| 1.07 2 1 3 | 21.2.1.1.4. | Standard long arm | | | | | | |
| stimulation 44 1 1 2 | | J0272 Apply standard long arm plaster or fiberglass casts | 1.07 | 7 | | 8 | 90.9 | |
| stimulation 44 1 1 2 | | Hilger nerve stimulation | | | | | | |
| | | | 44. | | | 2 | 5.83 | |

 ^{*} Mean TE Rating is 3.13, Standard Deviation is 2.24 (High TE = 5.37)
 ** Average TD rating is 5.00, Standard Deviation is 1.00

^{*}

TABLE 22

EXAMPLES OF TECHNICAL TASKS PERFORMED BY 20 PERCENT OR MORE AFSC 4N1X1 GROUP MEMBERS AND NOT REFERENCED TO THE STS (PERCENT MEMBERS PERFORMING)

| | | TSK | DIF* | 1 | 2.92 | 5.66 | 5.72 | 4 44 | 4 70 | 707 | 4.51 | 4.03 | | 4.41 | 4.41 | 4.61 | , | 4.03 | 4.85 | 03.1 | 4.00 | 4.43 | 3.82 |
|-------------------------|-------|---------------|-----------|---|-----------------------------------|--|---|---|---|--|--|----------------|---|---|--|--|--|---|-------------|---|--|---|------------|
| | | JNG | EMP* | 0 | 5.93 | 6.44 | 7.00 | 7.56 | 8 19 | 7.80 | × 04 × 04 | 5 | 1 03 | 1.93 | 7.93 | 7.59 | 302 | 07.7 | 77.0 | 7.50 | 7.57 | 75.1 | 92.9 |
| FORMING | DAFSC | 4N151 | (N=320) | G | 90 | 92 | 91 | 81 | 92 | ! ~ | 80 |) | O | 00 | 80 | 70 | 83 | 7 6 | 0 | 08 | 73 |) (| 73 |
| PERCENT MBRS PERFORMING | DAFSC | 4N131 | (N=213) | Ö | 96 | 98 | 98 | 91 | 93 | 92 | 06 | | 91 | 7 5 | 91 | 80 | 91 | 08 | 60 | 65 | | | 70 |
| PERCEN | 1ST | ENT NI-200 | (114-300) | 10. | 7.1 | 98 | 98 | 91. | 94 | 93 | 16 | | 93 | , 5 | c, | 79 | 63 | 0% | . | 92 | 82 | - 10 | T 0 |
| | | | | Adjust Mayo instrument tray stands while scrubbed | Assist physicians with lowers and | Assist physicians with laparoscopic procedures | Assist physicians with general surgery procedures | Assist surgeons in applying sterile drapes while scrubbed | Establish sterile fields in OR while scrubbed | Identify and properly manage dirty instruments or contaminated field | Identify drugs or solutions prior to accepting transfer to sterile field | while scrubbed | Label drugs or solutions within sterile field | Label drugs or solutions within sterile field | Does instruments as a second of the second o | r assuments of supplies to operating team members using hands- free technique | Perform preliminary cleaning of soiled instruments | Perform sterile draping of surgical equipment, such as microscones or | x-ray units | Prepare and handle specimens while scrubbed | Establish sterile fields in OR as circulator | Break down sterile fields while circulating | |
| | | TASKS | | D0097 | D0107 | 20100 | 00100 | D0120 | 07100 | D0127 | D0128 | | D0129 | D0129 | D0130 | 00100 | D0134 | D0135 | | D0136 | E0142 | G0175 | |

Mean TE Rating is 3.13, Standard Deviation is 2.24 (High TE = 5.37) Average TD rating is 5.00, Standard Deviation is 1.00

Plan of Instruction (POI) Analysis

II tasks were matched to related training objectives for the "entry level courses, with assistance from the 383rd Training Squadron SMEs. The method employed was similar to that of the STS percent members performing data for first-enlistment (1-48 months TAFMS) personnel, and TE and TD ratings.

POI blocks, units of instruction, and criterion objectives were compared using the standard set forth in AETC Instruction 36-2601. (30 percent or more of the first-enlistment personnel performing tasks trained, along with sufficiently high TE and TD ratings on those tasks). In accordance with this guidance, tasks trained in the course not meeting these criteria should be considered for elimination from formal course training if not justified on some other acceptable basis.

The results of the review of the POI follows:

J3AQR4N131-002 Surgical Services Apprentice, dated 10 July 1998. Only three of the POI performance-coded learning objectives in this course are not supported by survey data. Table 23 lists these proficiency-coded elements. Objectives II.1.a, II.1.d, and II.2.a should be reviewed by training personnel for possible deletion from this course.

Table 24 displays examples of tasks not referenced to POI J3AQR4N131-002. In addition to having high percentage of members performing, some of them have high TE and TD ratings. SMEs and training personnel should review these tasks and others rated high in TE, TD, and percent members performing for possible inclusion in the POI.

JOB SATISFACTION ANALYSIS

An examination of job satisfaction indicators can give career ladder managers a better understanding of factors that may affect the job performance of career ladder airmen. Questions covering job interest, perceived utilization of talents and training, sense of accomplishment from work, and reenlistment intentions were included in survey booklets to provide indications of job satisfaction.

Table 25 compares first-enlistment (1-48 months TAFMS), second-enlistment (49-96 months TAFMS), and career (97+ months TAFMS) group data to corresponding enlistment groups from other Medical AFSCs surveyed in 1997. These data can give a relative measure of how the job satisfaction of AFSC 4N1X1 personnel compares with similar Air Force specialties. Review of Table 25 reflects responses for AFSC 4N1X1 TAFMS groups regarding job interest, use of training, reenlistment intentions, and sense of accomplishment gained from work are all positive (75 percent or more)

The first-enlistment group rated higher job satisfaction in all areas except reenlistment intentions. Second-enlistment group members rated job interest, perceived utilization of training,

TABLE 23

EXAMPLES OF POI J3AQR4N131 ITEMS NOT SUPPORTED BY SURVEY DATA

| TASKS | | TNG EMP* | PERF (N=300) | TSK DIF** |
|--|--|--------------------------------------|----------------------------|--------------------------------------|
| II.1.a. | II.1.a. Identify basic facts and terms related to quality improvement and risk management with at least 70% accuracy | | | |
| 0442 | Participate in customer satisfaction programs Participate in QI programs | 2.85 | 8 12 | 4.50 |
| II.1d. | Identify basic facts and terms related to professional and patient relationships with at least 70% accuracy | | | |
| 0442 | Participate in customer satisfaction programs | 2.85 | ∞ | 4.51 |
| II.2.a | Identify basic facts and terms associated with property accountability and responsibility related to medical logistics with at least 70% accuracy | | | . • |
| M340 M341 M342 M346 M349 M353 | Order medical supplies from USAF agencies, other than pharmacy or linen supplies Order medical supplies using local purchase procedures Order nonnedical supplies from USAF supply agencies Perform periodic inventories of equipment or supplies, other than dated medication Receive supplies from medical logistics Review using activity issue/turn-in lists | 4.11 4.15 3.78 3.89 4.41 | 13 13 10 20 23 | 5.06 5.09 4.65 4.49 4.76 |

^{*} Mean TE Rating is 3.13, Standard Deviation is 2.24 (High TE = 5.37)
** Average TD rating is 5.00, Standard Deviation is 1.00

TABLE 24

EXAMPLES OF TECHNICAL TASKS PERFORMED BY 30 PERCENT OR MORE FIRST-ENLISTMENT PERSONNEL AND NOT REFERENCED TO THE 4N1X1 AFSC POI

| | | | PERCENT 1ST ENLIST | |
|-------|---|-------------|-----------------------|--------------|
| TASKS | | TNG EMP* | PERF (N=300) | TSK DIF** |
| D0098 | Adjust overhead operating lights while scrubbed | 5 81 | 00 | 200 |
| D0102 | Assist physicians with laparoscopic procedures | 7.01 | 60 | 7.04 |
| D0108 | Assist physicians with general surgery procedures | 0.44 | 00 | 5.66 |
| 01100 | Assist physicians with abotetical armonal arm (OD Oxer) | 00.7 | 86 | 5.72 |
| 70112 | Assist pursulans with obstetrics/gynecology (OB/OYN) | 6.37 | 78 | 5.78 |
| 20100 | Assist physicians with orthopedic surgery procedures | 6.56 | 11 | 6.49 |
| 77100 | Identity and properly manage dirty instruments or contaminated field | 7.89 | 93 | 4.97 |
| D0130 | Pass instruments or supplies to operating team members using hands-free technique | 7.59 | 79 | 4 61 |
| D0134 | Perform preliminary cleaning of soiled instruments prior to return to CSS | 7.26 | .93 | 4.03 |
| D0135 | Perform sterile draping of surgical equipment, such as microscopes or x-ray units | 6.22 | 86 | 4.85 |
| D0137 | Prepare and handle surgical implants while scrubbed | 7.41 | 78 | 4.98 |
| F0154 | Assist professional staff in performing blood loss counts, such as sponge weight or | 5.96 | . 55 | 5.19 |
| E0163 | Doction desired to the second | | | |
| r0103 | rosition sterile tables or related equipment, such as monitors, microscopes, or lasers | 6.41 | 79 | 4.63 |
| G01/6 | Change compressed medical gas tanks on OR equipment | 5.93 | 57 | 4.51 |
| 6/105 | Dispose of blood or blood byproducts | 6.85 | 74 | 3.92 |
| H0196 | Ketrieve blood from blood banks | 5.93 | 58 | 4.70 |
| H0198 | Retrieve equipment or supplies for surgery from outside surgical suite | 4.52 | 71 | 4.09 |
| T0207 | I ransport surgical specimens to laboratories | 0.09 | 85 | 3.64 |
| H0203 | I ransport trozen sections to laboratories | 5.93 | 81 | 4.20 |
| | | | | |

Mean TE Rating is 3.13, Standard Deviation is 2.24 (High TE = 5.37) Average TD rating is 5.00, Standard Deviation is 1.00

TABLE 25

COMPARISON OF JOB SATISFACTION INDICATORS FOR AFSC 4NIXI TAFMS GROUPS IN CURRENT STUDY TO A COMPARATIVE SAMPLE (PERCENT MEMBERS RESPONDING)

| | 1-48 MON | 1-48 MONTHS TAFMS | 49-96 | 49-96 MONTHS | M+76 | 97+ MONTHS |
|---|------------------|---------------------------|------------------|---------------------------|------------------|----------------------------|
| | 4N1X1 (N=300) | COMP SAMPLE (N=711) | 4N1X1 (N=154) | COMP SAMPLE (N=446) | 4N1X1 (N=310) | COMP SAMPLE (N=1018) |
| EXPRESSED JOB INTEREST | | | | | | |
| INTERESTING SO-SO DULL | 8 & & & | 70 18 12 | 78 12 10 | 76 15 9 | 78 15 7 | 81 13 6 |
| PERCEIVED USE OF TALENTS | | | | | | |
| FAIRLY WELL TO PERFECT LITTLE OR NOT AT ALL | 87 | 78 | 84 | 84 16 | 84 16 | 88 12 |
| PERCEIVED USE OF TRAINING: | | | | | | |
| FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL | 91 9 | 93 | 85 15 | 92 | 83 | 89 |
| SENSE OF ACCOMPLISHMENT FROM JOB | | | | | | |
| SATISFIED NEUTRAL DISSATISFIED | 77 10 10 | 71 14 15 | 76 8 16 | 75 14 11 | 84 · 16 0 | 78 · 8 14 |
| REENLISTMENT INTENTIONS | | | | | | |
| YES OR PROBABLY YES NO OR PROBABLY NO WILL RETIRE | 42 58 0 | 52 49 0 | 51 47 2 | 64 35 1 | 70 20 10 | 71 10 19 |

NOTE: Comparative data are from Medical AFSCs surveyed in 1997

and reenlistment intentions similar to their comparison counterparts. The sense of accomplishment from the job with second-enlistment personnel was the lowest in comparison to the comparative sample. Reenlistment intentions increased from first-enlistment personnel with the highest probabilities of reenlistment in the career group. Review of the job satisfaction data revels generally positive responsive in the five job satisfaction indicators across TAFMS groups.

IMPLICATIONS

As explained in the INTRODUCTION, this survey was conducted primarily to ensure current data for use in evaluating the effectiveness of training within the Surgical Services specialty. The data compiled from this survey shows that the "Slick" personnel follow a typical career progression pattern. The present classification structure, as described in AFMAN 36-2108 Airman Classification, accurately portrays the jobs in this study.

Analysis of career ladder documents indicates several areas of both the STS and POI are unsupported by survey data. Both documents should be reviewed by career field functional managers and technical training SMEs.

Job satisfaction data indicate first-enlistment AFSC 4N1X1 personnel are more satisfied with their jobs than the comparative sample in all areas except reenlistment intentions. No serious job satisfaction problems appear to exist in the remainder of the TAFMS groups.

The findings of this OSR come directly from survey data collected from AFSC 4N1X1 personnel worldwide.

PART TWO AFSC 4N1X1B

Analysis of DAFSC Groups

The distribution of AFSC 4N1X1B skill-level groups across the career ladder specialty jobs is displayed in Table 26. As expected, the highest concentration of "B" shred members is in the Urology Technician Job. The Urology Technician Job is the core job of the AFSC 4N1X1B. As personnel progress through the career ladder, they begin to move into traditional management and supervisory roles, as indicated by the higher percentage of 7-skill level personnel found in the Supervisory and Management Job.

Table 27 offers another perspective by displaying the relative percent time spent on each duty across skill-level groups. As expected, 3- and 5-skill level members are equally involved in performing general clinic activities and performing sterile operating room activities. Seven-skill level members are still performing the core work in addition to performing variety of supervisory, administrative, logistics, and management duties. Specific skill-level group discussions are presented below.

Skill-Level Descriptions

<u>DAFSC 4N131B</u>. The two 3-skill level personnel in this shred, represent less than 1 percent of the survey sample, perform an average of 165 tasks. Table 26 shows that 100 percent of this group work in the Urology Technician Job. Twenty-five percent of their job time is spent performing general clinical activities (see Table 27). Table 28 lists representative tasks these members perform, demonstrating the basic technical nature of their work.

<u>DAFSC 4N151B</u>. The 16 members at the 5-skill level, representing 2 percent of the survey sample, perform an average of 165 tasks. Table 26 shows that the Urology Technician Job is the core job of the 5-skill personnel. DAFSC 4N151B individuals spend 26 percent of their time performing general clinical activities and 20 percent performing sterile operating room activities (see Table 27). Table 29 lists representative tasks for these incumbents. What distinguishes 5-skill level personnel from 3-skill level personnel is that a slightly higher percentage of 5-skill level personnel perform basic supervisory functions (see Table 30).

<u>DAFSC 4N171B</u>. The 10 members in this group perform an average of 171 tasks, the most of any DAFSC group. Unlike the 3- and 5-skill level groups, 41 percent of their job time is spent on supervisory, training, and administrative tasks pertaining to Duties M through P (see Table 27). The largest percent of the members work in the Urology Technician Job (see Table 26).

TABLE 26

DISTRIBUTION OF AFSC 4N1X1B SKILL-LEVEL MEMBERS ACROSS CAREER LADDER JOBS (PERCENT MEMBERS RESPONDING)

| | | DAFSC | DAFSC | DAFSC |
|-------|--|----------------|------------------|------------------|
| SPE(| SPECIALTY JOBS | 4N131B $(N=2)$ | 4N151B (N=16) | 4N171B (N=16) |
| Ţ | SURGICAL SERVICES CLUSTER | 0 | 0 | 0 |
| | A. Entry Level Operating Room Technician Job B. Operating Room Technician Job C. Phase II Instructor | 0 0 0 | 0 0 0 | 000 |
| П. | CENTRAL STERILE SUPPY (CSS) TECHNICIAN JOB | 0 | 0 | 0 |
| Ш | OTORHINOLARYNGOLOGY (ENT) TECHNICIAN JOB | 0 | 0 | 0 |
| Ŋ. | UROLOGY TECHNICIAN JOB | 100 | 94 | 80 |
| > | ORTHOPEDIC TECHNICIAN JOB | 0 | 0 | 0 |
| VI. | CLINIC NCOIC JOB | 0 | 0 | 0 |
| VII. | SURGICAL LOGISTICS JOB | 0 | 0 | 0 |
| VIII. | SUPERVISORY AND MANAGEMENT JOB | 0 | 0 | 20 |
| X. | SUPERINTENDENT JOB | 0 | 0 | |
| × | X. NOT GROUPED | 0 | 9 | . 0 |

TABLE 27

TIME SPENT ON DUTIES BY AFSC 4N1X1B SKILL-LEVEL GROUPS (RELATIVE PERCENT OF JOB TIME)

| <u>D</u> (| JTIES | DAFSC 4N131B (N=2) | DAFSC 4N151B (N=16) | DAFSC 4N171B (N=10) |
|------------|--|--------------------------|---------------------------|---------------------------|
| Α | PERFORMING GENERAL CLINICAL ACTIVITIES | 25 | 26 | 20 |
| В | PERFORMING CENTRAL STERILE SUPPLY (CSS) ACTIVITIES | 4 | 3 | 3 |
| C | PERFORMING ANESTHESIA SUPPORT ACTIVITIES | * | * | * |
| D | PERFORMING STERILE OPERATING ROOM ACTIVITIES | 21 | 20 | 16 |
| E | PERFORMING NONSTERILE PREOPERATIVE OPERATING ROOM | 4 | 3 | 3 |
| | ACTIVITIES | | | |
| F | PERFORMING NONSTERILE INTRAOPERATIVE OPERATING | 7 | 8 | 6 |
| | ROOM ACTIVITIES | | | |
| G | PERFORMING NONSTERILE POSTOPERATIVE OPERATING ROOM | 3 | 3 | l |
| | ACTIVITIES | | | |
| Η | PERFORMING OPERATING ROOM TRANSPORT OR OUTSIDE | 2 | 2 | 1 . |
| | FLOAT ACTIVITIES | | | |
| Ι | PERFORMING OTORHINOLARYNGOLOGY (ENT) ACTIVITIES | 0 | 0 | * |
| J | PERFORMING ORTHOPEDIC ACTIVITIES | 0 | 0 - | * |
| K | PERFORMING UROLOGY ACTIVITIES | 8 | 10 | 8 |
| L | PERFORMING RESEARCH ACTIVITIES | 0 | * | |
| M | PERFORMING LOGISTICS OR RESOURCE MANAGEMENT | 13 | 12 | 11 |
| | ACTIVITIES | | | |
| N | PERFORMING MEDICAL READINESS ACTIVITIES | 2 | 2 | 2 . |
| О | PERFORMING ADMINISTRATIVE OR MANAGEMENT ACTIVITIES | 7 | 8 | 23 |
| P | PERFORMING TRAINING ACTIVITIES | 3 | 2 | 5 |

^{*} Indicates less than 1 percent

REPRESENTATIVE TASKS PERFORMED BY DAFSC 4N131B PERSONNEL

| TASKS | | PERCENT MEMBERS PERFORMING (N=2) |
|---------------|---|---|
| | | (11 2) |
| K0286 | Assist physicians with urology procedures in clinic | 100 |
| A0044 | Schedule clinic patients' appointments | 100 |
| A0002 | Answer appointment telephone lines | 100 |
| D0115 | Assist physicians with urological surgery procedures | 100 |
| A0009 | Contact new patients for appointments | 100 |
| A0004 | Assist physicians in noninvasive physical examinations | 100 |
| A0027 | Prepare patients for clinic examinations | 100 |
| A0030 | Prepare sterile setups for clinic procedures | 100 |
| K0293 | Instill xylocaine jellies intraurethrally | 100 |
| K0288 | Collect catheterized urine specimens | 100 |
| M0341 | Order medical supplies using local purchase procedures | 100 |
| M0323 | Coordinate standard medical supply purchases with medical materiel | 100 |
| M0322 | Coordinate equipment purchases with medical materiel | 100 |
| K0287 | Catheterize urology patients | 100 |
| D 0100 | Assist physicians with endoscopic procedures | 100 |
| K0298 | Perform urodynamic tests, such as cystometrograms or urine flow | 100 |
| M0349 | Receive supplies from medical logistics | 100 |
| B0052 | Clean instruments or equipment for storage or reprocessing | 100 |
| A0026 | Prepare accessory equipment, such as lamps, for clinic procedures | 100 |
| O0436 | Log procedures into record books or computers | 100 |
| D0121 | Break down sterile fields while scrubbed | 100 |
| D0103 | Assist physicians with microscopic procedures | 100 |
| D0133 | Perform hand arm scrubs | 100 |
| D0119 | Assist professional staff in performing counts of sponges, needles, instruments, or related supplies while scrubbed | 100 |
| A0043 | Schedule patients for surgery | 100 |

REPRESENTATIVE TASKS PERFORMED BY DAFSC 4N151B PERSONNEL

| TASKS | | MEMBERS PERFORMING (N=16) |
|---------------|---|---------------------------------|
| A0031 | Prepare and drape patients for clinic procedures | 100 |
| A0002 | Answer appointment telephone lines | |
| D0115 | | 100 |
| A0044 | Assist physicians with urological surgery procedures | 100 |
| | Schedule clinic patients' appointments | 100 |
| A0030 | Prepare sterile setups for clinic procedures | 100 |
| A0027 | Prepare patients for clinic examinations | 100 |
| K0293 | Instill xylocaine jellies intraurethrally | 100 |
| K0287 | Catheterize urology patients | 100 |
| K0288 | Collect catheterized urine specimens | 100 |
| A0026 | Prepare accessory equipment, such as lamps, for clinic procedures | 100 |
| A0038 | Return clinic patients' health records | . 100 |
| A0017 | Inspect clinic equipment or instruments for cleanliness | 100 |
| F0161 | Perform surgical skin cleansings | 100 |
| K0300 | Prepare contrast media for urologic procedures | 100 |
| A0005 | Brief patients on clinical policies | 100 |
| A0040 | Review expiration dates on clinics' sterile instruments, supplies, or drugs | 100 |
| A0039 | Return unused supplies to storage areas in clinic | 100 |
| G0180 | Doff personal protective attire | 100 |
| K0286 | Assist physicians with urology procedures in clinic | 94 |
| D 0100 | Assist physicians with endoscopic procedures | 94 |
| A0022 | Obtain clinic patients' health records | 94 |
| K0289 | Collect clean catch urine specimens | 94 |
| D0126 | Establish sterile fields in OR while scrubbed | 94 |
| A0015 | Establish patient identity/eligibility for services (DEERS) | 94 |
| A0008 | Chanerone during examinations | 94 |

TABLE 30

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 4N131B AND DAFSC 4N151B PERSONNEL (PERCENT MEMBERS PERFORMING)

| | | DAFSC 4N131B | DAFSC 4N151B | |
|---|---|--|---------------------------------------|------------|
| TASKS | | (N=2) | (N=16) | DIFFERENCE |
| 00434 | Interpret policies, directives, or procedures for subordinates | 100 | 19 | ~ |
| E0145 | Perform initial or between-case cleaning of OR | 100 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | ום זל |
| F0141 | Disinfect inanimate objects in OR | 9 5 | C7 6 | C : |
| 70700 | Therefore and money are and money and money and money are and money and money are and money and money are and | 001 | C7 | 75 |
| 00420 | _ | 100 | 25 | 75 |
| 00422 | Evaluate personnel for compliance with performance standards | 100 | 31 | 69 |
| B0066 | Maintain sterilizer monitoring records | 100 | 31 | 69 |
| E0149 | Prepare formalin containers for surgical specimens | 100 | 38 | 63 |
| E0144 | Perform initial or between-case cleaning of equipment | 100 | 38 | 63 |
| P0478 | Maintain training records or files | 100 | 38 | 63 |
| H0202 | Transport surgical specimens to laboratories | 100 | 38 | 63 |
| 1 | | 1 1 1 1 1 1 1 1 1 1 | | |
| K0301 | Set techniques for urologic x-ray exposures | * | 81 | -81 |
| K0299 | Perform uroradiographic procedures | * | 81 | -81 |
| K0302 | Shoot kidney-ureter-bladder (KUB) x-rays | * | 81 | -81 |
| 00405 | Destroy Privacy Act materials or documents | * | . 75 | -75 |
| 00397 | Conduct self-inspections or self-assessments | * | . 69 | 69- |
| K0296 | Perform microscopic urinalysis | * | 63 | -63 |
| K0297 | Perform minor maintenance on x-ray equipment | * | 56 | -56 |
| A0038 | Return clinic patients' health records | 20 | 100 | -50 |
| M0330 | Evaluate maintenance or utilization of equipment, tools, parts, supplies, | * | 50 | -50 |
| | or workspace | | | |
| K0300 | Prepare contrast media for urologic procedures | 50 | 100 | -50 |

REPRESENTATIVE TASKS PERFORMED BY DAFSC 4N171B PERSONNEL

| | | PERCENT MEMBERS PERFORMING |
|-------|---|----------------------------------|
| TASKS | | (N=10) |
| K0286 | Assist physicians with urology procedures in clinic | 100 |
| A0002 | Answer appointment telephone lines | 100 |
| K0293 | Instill xylocaine jellies intraurethrally | 100 |
| K0287 | Catheterize urology patients | 100 |
| A0004 | Assist physicians in noninvasive physical examinations | 100 |
| A0030 | Prepare sterile setups for clinic procedures | 100 |
| O0419 | Establish performance standards for subordinates | 100 |
| A0031 | Prepare and drape patients for clinic procedures | 100 |
| A0013 | Don or doff surgical attire in clinic | 100 |
| K0300 | Prepare contrast media for urologic procedures | 100 |
| A0017 | Inspect clinic equipment or instruments for cleanliness | 100 |
| A0040 | Review expiration dates on clinics' sterile instruments, supplies, or drugs | 100 |
| A0039 | Return unused supplies to storage areas in clinic | 100 |
| A0044 | Schedule clinic patients' appointments | 90 |
| O0457 | Write or indorse military performance reports | 90 |
| O0399 | Conduct supervisory performance feedback sessions | 90 |
| K0288 | Collect catheterized urine specimens | 90 |
| O0433 | Inspect personnel for compliance with military standards | 90 |
| O0422 | Evaluate personnel for compliance with performance standards | 90 |
| A0003 | Answer patient medical inquiries | 90 |
| O0404 | Counsel subordinates concerning personal matters | 90 |
| A0027 | Prepare patients for clinic examinations | 90 |
| A0045 | Screen clinic patients' vital signs | 90 |
| K0289 | Collect clean catch urine specimens | 90 |
| A0006 | Brief physicians on patient followins | 90 |

TABLE 32

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 4N151B AND DAFSC 4N171B PERSONNEL (PERCENT MEMBERS PERFORMING)

| Prepare patients for intraoperative x-rays Dispose of blood or blood byproducts Label urologic x-ray films Perform surgical skin cleansings Pass instruments or supplies to operating team members using hands-free Assist physicians with microscopic procedures Doff personal protective attire File urologic x-ray films Inject contrast media intraurethrally Remove drains from clinic patients Establish performance standards for subordinates Evaluate personnel for promotion, demotion, reclassification, or special awards Counsel subordinates concerning personal matters Conduct supervisory orientations for newly assigned personnel Interpret policies, directives, or procedures for subordinates Inspect personnel for compliance with military standards Conduct supervisory performance feedback sessions Write or indorse military performance reports Evaluate personnel for compliance with performance standards Write recommendations for awards or decorations Evaluate personnel for compliance with performance standards Write recommendations for awards or decorations | | | DAFSC 4N151B | DAFSC | · |
|--|----------|--|---|------------------|------------|
| Prepare patients for intraoperative x-rays Dispose of blood or blood byproducts Label urologic x-ray films Perform surgical skin cleansings Pass instruments or supplies to operating team members using hands-free Assist physicians with microscopic procedures Assist physicians with microscopic procedures Doff personal protective attire File urologic x-ray films Inject contrast media intraurethrally Remove drains from clinic patients Establish performance standards for subordinates Establish performance standards for subordinates Evaluate personnel for promotion, demotion, reclassification, or special awards Counsel subordinates concerning personal matters Conduct supervisory orientations for newly assigned personnel Interpret policies, directives, or procedures for subordinates Interpret policies, directives, or procedures for subordinates Interpret policies, directives, or procedures for subordinates Interpret policies, directives, or procedures for subordinates Interpret policies, directives, or procedures for subordinates Interpret policies, directives, or procedures for subordinates Interpret policies, directives, or procedures for subordinates Interpret policies, directives, or procedures for subordinates Interpret policies, directives, or procedures for subordinates Conduct supervisory orientations for newly assigned personnel Interpret policies, directives, or procedures for subordinates Write or indorse military performance reports Evaluate personnel for compliance with performance standards 31 Write recommendations for awards or decorations | SKS | | (N=16) | 4N1/1B (N=10) | DIFFERENCE |
| Dispose of blood or blood byproducts Label urologic x-ray films Perform surgical skin cleansings Pass instruments or supplies to operating team members using hands-free Pass instruments or supplies to operating team members using hands-free Assist physicians with microscopic procedures Doff personal protective attire Assist physicians with microscopic procedures Doff personal protective attire File urologic x-ray films Doff personal protective attire File urologic x-ray films Inject contrast media intraurethrally Remove drains from clinic patients Remove drains from clinic patients Establish performance standards for subordinates Establish performance standards for subordinates Counsel subordinates concerning personal matters Conduct supervisory orientations for newly assigned personnel Interpret policies, directives, or procedures for subordinates Conduct supervisory performance feedback sessions Write or indorse military performance reports Evaluate personnel for compliance with performance standards Evaluate personnel for compliance with performance standards Solution 100 Solution 10 | 69 | Prepare patients for intraoperative x-rays | 00 | C | |
| Label urologic x-ray films Perform surgical skin cleansings Pass instruments or supplies to operating team members using hands-free Passis physicians with microscopic procedures Assist physicians with microscopic procedures Doff personal protective attire File urologic x-ray films Assist physicians with microscopic procedures Doff personal protective attire File urologic x-ray films File urologic x-ray fi | 6/ | Disnose of blood or blood by by and by a second or blood by a second or | 00 | 30 | ×2 |
| Perform surgical skin cleansings Perform surgical skin cleansings Perform surgical skin cleansings Pass instruments or supplies to operating team members using hands-free Assist physicians with microscopic procedures Doff personal protective attire File urologic x-ray films Inject contrast media intraurethrally Remove drains from clinic patients Establish performance standards for subordinates Establish performance standards for subordinates Establish performance standards for subordinates Evaluate personnel for promotion, demotion, reclassification, or special awards Counsel subordinates concerning personal matters Counsel subordinates concerning personal matters Conduct supervisory orientations for newly assigned personnel Interpret policies, directives, or procedures for subordinates Inspect personnel for compliance with military standards Conduct supervisory performance feedback sessions Write or indorse military performance reports Evaluate personnel for compliance with performance standards Sylvaluate personnel for way awards or decorations Evaluate personnel for way awards or decorations | 707 | I abolimologia w man filma | 63 | . 10 | 53 |
| Perform Surgical skin cleansings 100 50 | <u> </u> | Lauel utologic x-ray lims | 81 | 30 | 51 |
| Fass instruments or supplies to operating team members using hands-free Assist physicians with microscopic procedures Assist physicians with microscopic procedures Doff personal protective attire File urologic x-ray films Inject contrast media intraurethrally Remove drains from clinic patients Inject contrast media intraurethrally Remove drains from clinic patients Establish performance standards for subordinates Evaluate personnel for promotion, demotion, reclassification, or special Establish performance standards for subordinates Counsel subordinates concerning personal matters Counsel subordinates concerning personal matters Conduct supervisory orientations for newly assigned personnel Interpret policies, directives, or procedures for subordinates Inspect personnel for compliance with military standards Conduct supervisory performance feedback sessions Write or indorse military performance reports Evaluate personnel for compliance with performance standards Evaluate personnel for compliance with performance standards Evaluate personnel for wards or decorations 25 80 80 80 80 80 80 80 80 80 8 | ο 10 | Perform surgical skin cleansings | 100 | 50 | 50 |
| Assist physicians with microscopic procedures Assist physicians with microscopic procedures Doff personal protective attire File urologic x-ray films Inject contrast media intraurethrally Remove drains from clinic patients Establish performance standards for subordinates Evaluate personnel for promotion, demotion, reclassification, or special awards Counsel subordinates concerning personal matters Conduct supervisory orientations for newly assigned personnel Interpret policies, directives, or procedures for subordinates Inspect personnel for compliance with military standards Conduct supervisory performance feedback sessions Write or indorse military performance reports Evaluate personnel for compliance with performance standards 31 Solution of the compliance with performance standards Write recommendations for awards or decorations 25 80 80 | 130 | Pass instruments or supplies to operating team members using hands-free | 88 | 40 | . 48 |
| Assist physicians with microscopic procedures Doff personal protective attire File urologic x-ray films Inject contrast media intraurethrally Remove drains from clinic patients Remove drains from clinic patients Remove drains from clinic patients Establish performance standards for subordinates Evaluate personnel for promotion, demotion, reclassification, or special Establish performance standards for subordinates Evaluate personnel for promotion, demotion, reclassification, or special Establish performance standards for subordinates Counsel subordinates concerning personal matters Conduct supervisory orientations for newly assigned personnel Interpret policies, directives, or procedures for subordinates Inspect personnel for compliance with military standards Conduct supervisory performance feedback sessions Write or indorse military performance reports Evaluate personnel for compliance with performance standards Stall S | | technique | | | ? |
| Doff personal protective attire File urologic x-ray films Inject contrast media intraurethrally Remove drains from clinic patients Report personnel for promotion, demotion, reclassification, or special Report personnel for promotion, demotion, reclassification, or special Report personnel for compliance with military standards Report personnel for compliance with performance personnel for compliance from fremove from from from from from from from from | 103 | Assist physicians with microscopic procedures | 81 | 40 | 41 |
| File urologic x-ray films Inject contrast media intraurethrally Remove drains from clinic patients Remove drains from cli | G0180 | Doff personal protective attire | 100 | ? 9 | 1 0 |
| Inject contrast media intraurethrally Remove drains from clinic patients Establish performance standards for subordinates Evaluate personnel for promotion, demotion, reclassification, or special Establish performance standards for subordinates Counsel subordinates concerning personal matters Conduct supervisory orientations for newly assigned personnel Interpret policies, directives, or procedures for subordinates Inspect personnel for compliance with military standards Conduct supervisory performance feedback sessions Inspect personnel for compliance with performance standards Evaluate personnel for compliance with performance standards Standard personnel for compliance with performance standards Evaluate personnel for compliance with performance standards Standard personn | 167 | File urologic x-ray films | 8 | 90 | 40 |
| Remove drains from clinic patients Establish performance standards for subordinates Evaluate personnel for promotion, demotion, reclassification, or special Establish performance standards for subordinates Counsel subordinates concerning personal matters Conduct supervisory orientations for newly assigned personnel Interpret policies, directives, or procedures for subordinates Inspect personnel for compliance with military standards Conduct supervisory performance feedback sessions Inspect personnel for compliance with performance standards Write or indorse military performance reports Evaluate personnel for compliance with performance standards Write recommendations for awards or decorations 25 80 | ; | | 69 | 30 | 39 |
| Establish performance standards for subordinates Establish performance standards for subordinates Evaluate personnel for promotion, demotion, reclassification, or special awards Counsel subordinates concerning personal matters Conduct supervisory orientations for newly assigned personnel Interpret policies, directives, or procedures for subordinates Inspect personnel for compliance with military standards Conduct supervisory performance feedback sessions Write or indorse military performance reports Evaluate personnel for compliance with performance standards Write recommendations for awards or decorations Write recommendations for awards or decorations | 76 | Inject contrast media intraurethrally | 88 | 20 | 38 |
| Establish performance standards for subordinates Evaluate personnel for promotion, demotion, reclassification, or special awards Counsel subordinates concerning personal matters Conduct supervisory orientations for newly assigned personnel Interpret policies, directives, or procedures for subordinates Inspect personnel for compliance with military standards Conduct supervisory performance feedback sessions Write or indorse military performance reports Evaluate personnel for compliance with performance standards Write recommendations for awards or decorations Write recommendations for awards or decorations | 134 | Kemove drains from clinic patients | 88 | 50 | 38 |
| Evaluate personnel for promotion, demotion, reclassification, or special 13 80 80 80 80 80 80 80 80 80 80 80 80 80 | | | 1 | | 1 |
| Evaluate personnel for promotion, demotion, reclassification, or special 13 80 awards Counsel subordinates concerning personal matters Conduct supervisory orientations for newly assigned personnel Interpret policies, directives, or procedures for subordinates Inspect personnel for compliance with military standards Conduct supervisory performance feedback sessions Write or indorse military performance reports Evaluate personnel for compliance with performance standards Write recommendations for awards or decorations Evaluate personnel for compliance with performance standards Solution 13 80 Write recommendations for awards or decorations | 7 | Establish performance standards for subordinates | 25 | 100 | 7.75 |
| awards2590Counsel subordinates concerning personal matters1980Conduct supervisory orientations for newly assigned personnel1980Interpret policies, directives, or procedures for subordinates3190Inspect personnel for compliance with military standards3190Write or indorse military performance reports3190Evaluate personnel for compliance with performance standards3190Write recommendations for awards or decorations2580 | 73 | Evaluate personnel for promotion, demotion, reclassification, or special | 13 | 80 | |
| Counsel subordinates concerning personal matters2590Conduct supervisory orientations for newly assigned personnel1980Interpret policies, directives, or procedures for subordinates3190Inspect personnel for compliance with military standards3190Conduct supervisory performance feedback sessions3190Write or indorse military performance reports3190Evaluate personnel for compliance with performance standards3190Write recommendations for awards or decorations2580 | | awards | |)) | 0 |
| Conduct supervisory orientations for newly assigned personnel Interpret policies, directives, or procedures for subordinates Inspect personnel for compliance with military standards Conduct supervisory performance feedback sessions Write or indorse military performance reports Evaluate personnel for compliance with performance standards Write recommendations for awards or decorations Solution of the personnel for compliance with performance standards Write recommendations for awards or decorations | 40 | Counsel subordinates concerning personal matters | 25 | 06 | 39 |
| Interpret policies, directives, or procedures for subordinates Inspect personnel for compliance with military standards Conduct supervisory performance feedback sessions Write or indorse military performance reports Evaluate personnel for compliance with performance standards Write recommendations for awards or decorations Interpret personnel for supervisory performance standards Interpret personnel for compliance with performance standards Interpret perf | 01 | Conduct supervisory orientations for newly assigned personnel | 19 | 08 | 5 |
| Inspect personnel for compliance with military standards3190Conduct supervisory performance feedback sessions3190Write or indorse military performance reports3190Evaluate personnel for compliance with performance standards3190Write recommendations for awards or decorations2580 | 34 | Interpret policies, directives, or procedures for subordinates | 19 |). O | -01 |
| Conduct supervisory performance feedback sessions Write or indorse military performance reports Evaluate personnel for compliance with performance standards Write recommendations for awards or decorations | 33 | Inspect personnel for compliance with military standards | | | 10- |
| Write or indorse military performance reports Evaluate personnel for compliance with performance standards Write recommendations for awards or decorations | 0 | Conduct committee outpermission of the continuous conti | 3.1 | 06 | -59 |
| Write or indorse military performance reports Evaluate personnel for compliance with performance standards Write recommendations for awards or decorations 25 80 | 7 2 | Collude supervisory performance reedback sessions | 31 | 06 | -59 |
| Evaluate personnel for compliance with performance standards Write recommendations for awards or decorations 25 80 | ٠. د | write of indorse military performance reports | 31 | 06 | -59 |
| Write recommendations for awards or decorations 80 | 77 | Evaluate personnel for compliance with performance standards | 31 | 06 | -59 |
| | Š Š | | 25 | 80 | -55 |

In general, a great deal of diversity is not seen in the work performed at this skill level. As shown in Table 27, many commonly performed tasks are performed by high percentages of personnel. Table 32 shows tasks, which best distinguish between 5- and 7-skill level members. A higher percentage of 7-skill level members perform typical supervisory tasks, reflecting a first-line supervisory role for these more senior personnel. Examples of tasks with the greatest difference in members performing include: establishing performance standards for subordinates, evaluating personnel for promotion, demotion, reclassification, or special awards, counseling subordinates concerning personal matters, and conducting supervisory orientations for newly assigned personnel.

JOB SATISFACTION ANALYSIS

An examination of job satisfaction indicators can give career ladder managers a better understanding of factors that may affect the job performance of career ladder airmen. Therefore, the survey booklet included attitude questions covering job interest, perceived utilization of talents and training, sense of accomplishment from work, and reenlistment intentions. The responses of the current survey sample were analyzed by making comparisons among TAFMS groups of the AFSC 4N1X1B career ladders and a comparative sample of personnel from other Medical AFSCs surveyed in 1997.

Table 33 compares "B" shred second-enlistment (49-96 months TAFMS), and career (97+ months TAFMS) group data to corresponding enlistment groups from other Medical AFSCs surveyed in 1997. These data give a relative measure of how the job satisfaction of AFSC 4N1X1B personnel compares with similar Air Force specialties. Urology personnel reported slightly lower job satisfaction figures than members of the comparative sample.

The second-enlistment and career groups rated slightly lower job satisfaction in all areas except perceived use of talents. Expressed job interest with career personnel was the lowest in comparison to other medical groups and second enlistment personnel Reenlistment intentions increased from second-enlistment personnel with the highest probabilities of reenlistment in the career group (97+ months TAFMS). The percentage of positive responses in these comparisons reflect a career ladder where personnel appear to be satisfied with their jobs.

TABLE 33

COMPARISON OF JOB SATISFACTION INDICATORS FOR AFSC 4N1X1B
TAFMS GROUPS IN CURRENT STUDY TO A COMPARATIVE SAMPLE
(PERCENT MEMBERS RESPONDING)

| | 49-96 1 | MONTHS | 97+ M | ONTHS |
|----------------------------------|-----------------|---------------------------|------------------|----------------------------|
| | 4N1X1B (N=7) | COMP SAMPLE (N=446) | 4N1X1B (N=21) | COMP SAMPLE (N=1018) |
| EXPRESSED JOB INTEREST | | | | |
| INTERESTING | 72 | 76 | 67 | 81 |
| SO-SO | 14 | 15 | 23 | 13 |
| DULL | 14 | 9 | 10 | 6 |
| PERCEIVED USE OF TALENTS | | | | |
| FAIRLY WELL TO PERFECTLY | 100 | 84 | - 86 | 88 |
| LITTLE OR NOT AT ALL | 0 | 16 | 14 | 12 |
| PERCEIVED USE OF TRAINING | | | | |
| FAIRLY WELL TO PERFECTLY | 85 | 92 | 81 | 89 |
| LITTLE OR NOT AT ALL | 15 | 8 | 19 | 11 |
| SENSE OF ACCOMPLISHMENT FROM JOB | | | | |
| SATISFIED | 72 | 75 | . 71 | 78 |
| NEUTRAL | 14 | 14 | 5 | 8 |
| DISSATISFIED | 14 | 11 | 24 | 14 |
| REENLISTMENT INTENTIONS | | | | |
| YES OR PROBABLY YES | 57 | 64 | 67 | . 71 |
| NO OR PROBABLY NO | 43 | 35 | 14 | 10 |
| WILL RETIRE | 0 | 1 | 19 | 19 |

NOTE: Comparative data are from the Medical AFSCs surveyed in 1997

IMPLICATIONS

As explained in the INTRODUCTION, this survey was conducted primarily to ensure current data for use in evaluating the effectiveness of training within the Surgical Services specialty. "B" shred data compiled from this survey show current members follow a typical career progression pattern. The present classification structure, as described in AFMAN 36-2108 Airman Classification, accurately portrays the "B" shred jobs in this study.

Job satisfaction data indicate second-enlistment AFSC 4N1X1B personnel are slightly less satisfied with their jobs than the comparative sample in all areas except second-enlistment personnel perceived use of talents. No serious job satisfaction problems appear to exist in the "B" shred members.

The findings of this OSR come directly from survey data collected from AFSC 4N1X1B personnel worldwide.

PART THREE AFSC 4N1X1C

Analysis of DAFSC Groups

Table 34 displays the distribution of the AFSC 4N1X1C skill level groups across career ladder clusters and jobs. As expected, almost all "C" shred personnel perform jobs pertaining to clinical and orthopedic activities. The Orthopedic Technician Job and Clinic NCOIC Job are core to the "C" shred. As personnel progress in the career ladder, they begin to move into a supervisory role, as indicated by the higher percentage of 7-skill level personnel found in the Clinic NCOIC Job.

Table 35 offers another perspective by displaying the relative percent time spent on each duty across skill-level groups. Three- and 5-skill level members spend more time performing general clinical activities (Duty A) and performing orthopedic activities (Duty J). Seven-skill level personnel also spend a majority of their time performing clinical activities and orthopedic activities but there is a very distinct move towards performing administrative and management activities (Duty O). Twenty-three percent of their time is devoted to this area. Discussed below are specific skill-level descriptions.

Skill-Level Descriptions

<u>DAFSC 4N131C</u>. The 6 members of this group perform an average of 134 tasks. They have an average paygrade of E-4. Table 34 shows that 67 percent of this group work in the Clinic NCOIC Job and 33 percent in the Orthopedic Job. They spend 54 percent of their time performing general clinical activities and orthopedic activities (see Table 35). Table 36 shows these members performing tasks such as scheduling clinic patients' appointments, removing splints, preparing patients for removal of casts or splints, removing casts, assisting physicians with orthopedic surgical procedures in clinic and applying standard long arm plaster or fiberglass casts.

<u>DAFSC 4N151C</u>. The five-skill level members of this shred represent 7 percent of the survey sample and perform an average of 161 tasks. Table 34 shows that 71 percent of the 56 members in this group work in the Clinic NCOIC Job and 23 percent work in the Orthopedic Technician Job. Like their 3-skill level counterparts, they spend the majority of their job time (49 percent) performing general clinical activities and orthopedic activities (see Table 35). Table 37 lists representative tasks performed by these members. DAFSC 4N151C skill-level members perform many of the same technical tasks as their 3-skill level counterparts. The primary difference between the two groups is an increase in supervisory tasks performed by DAFSC 4N151C group members (see Table 38).

<u>DAFSC 4N171C.</u> Seven-skill level personnel average almost 10 years in the career ladder and perform an average of 228 tasks. Although most of their job time is involved with performing

TABLE 34

DISTRIBUTION OF AFSC 4N1X1C SKILL-LEVEL MEMBERS ACROSS CAREER LADDER JOBS (PERCENT MEMBERS RESPONDING)

| SPECIALTY JOBS | DAFSC 4N131C (N= 6) | DAFSC 4N151C (N=56) | DAFSC 4N171C |
|--|---------------------------|---------------------------|-----------------|
| I. SURGICAL SERVICES CLUSTER | 0 | 2 | 0 |
| A. Entry Level Operating Room Technician JobB. Operating Room Technician JobC. Phase II Instructor | 0 0 0 | 0 0 7 | 000 |
| II. CENTRAL STERILE SUPPY (CSS) TECHNICIAN JOB | 0 | 0 | 0 |
| III. OTORHINOLARYNGOLOGY (ENT) TECHNICIAN JOB | . 0 | 0 | 0 |
| IV. UROLOGY TECHNICIAN JOB | 0 | 0 | 0 |
| V. ORTHOPEDIC TECHNICIAN JOB | 33 | 23 | 9 |
| VI. CLINIC NCOIC JOB | <i>L</i> 9 | 71 | . & |
| VII. SURGICAL LOGISTICS JOB | | 0 | 3 0 |
| VIII. SUPERVISORY AND MANAGEMENT JOB | 0 | 0 | 0 |
| IX. SUPERINTENDENT JOB | 0 | 0 | 0 |
| X. NOT GROUPED | 0 | 4 | 9 |

TABLE 35

TIME SPENT ON DUTIES BY MEMBERS OF AFSC 4N1X1C SKILL-LEVEL GROUPS (RELATIVE PERCENT OF JOB TIME)

| . <u>D</u> [| JTIES | DAFSC 4N131C (N=6) | DAFSC 4N151C (N=56) | DAFSC 4N171C (N=16) |
|--------------|--|--------------------------|---------------------------|---------------------------|
| Α | PERFORMING GENERAL CLINICAL ACTIVITIES | 25 | 26 | 20 |
| В | PERFORMING CENTRAL STERILE SUPPLY (CSS) ACTIVITIES | 23 * | | 20 |
| Ċ | PERFORMING ANESTHESIA SUPPORT ACTIVITIES | | 2 * | 1 |
| Ď | PERFORMING STERILE OPERATING ROOM ACTIVITIES | 8 | • | * |
| E | PERFORMING NONSTERILE PREOPERATIVE OPERATING ROOM | 8 | 10 | 9 |
| L | ACTIVITIES | 1 | 2 | 2 |
| F | | _ | | |
| 1 | PERFORMING NONSTERILE INTRAOPERATIVE OPERATING ROOM ACTIVITIES | 4 | 5 | • 4 |
| G | | | | |
| G | PERFORMING NONSTERILE POSTOPERATIVE OPERATING ROOM | 1 | 2 | 1 |
| ŤΤ | ACTIVITIES | | | |
| H | PERFORMING OPERATING ROOM TRANSPORT OR OUTSIDE | * | 2 | 1 |
| _ | FLOAT ACTIVITIES | | • | |
| I | PERFORMING OTORHINOLARYNGOLOGY (ENT) ACTIVITIES | 0 | * | * |
| J | PERFORMING ORTHOPEDIC ACTIVITIES | 29 | 23 | 17 |
| K | PERFORMING UROLOGY ACTIVITIES | 0 | * | * |
| L | PERFORMING RESEARCH ACTIVITIES | * | * | 0 |
| M | PERFORMING LOGISTICS OR RESOURCE MANAGEMENT | 10 | 11 | 12 |
| | ACTIVITIES | | | 12 |
| N | PERFORMING MEDICAL READINESS ACTIVITIES | 3 | 3 | .3 |
| 0 | PERFORMING ADMINISTRATIVE OR MANAGEMENT ACTIVITIES | 16 | 11 | 23 |
| P | PERFORMING TRAINING ACTIVITIES | 1 | 3 | 6 |
| | | 1 | 3 | U |

^{*} Indicates less than 1 percent

REPRESENTATIVE TASKS PERFORMED BY DAFSC 4N131C PERSONNEL

| | | MEMBERS PERFORMING |
|--------|---|-----------------------|
| TASKS | | (N=6) |
| | | |
| A0044 | Schedule clinic patients' appointments | 100 |
| J0285 | Remove splints | 100 |
| J0282 | Prepare patients for removal of casts or splints | 100 |
| J0284 | Remove casts | 100 |
| J0277 | Assist physicians with orthopedic surgical procedures in clinic | 100 |
| J0272 | Apply standard long arm plaster or fiberglass casts | 100 |
| J0273 | Apply standard short arm plaster or fiberglass casts | 100 |
| J0269 | Apply short leg plaster or fiberglass casts | 100 |
| J0270 | Apply short leg plaster or fiberglass splints | 100 |
| J0266 | Apply short arm scaphoid plaster or fiberglass splints | 100 |
| J0249 | Apply long arm scaphoid plaster or fiberglass splints | 100 |
| J0253 | Apply long leg plaster or fiberglass casts, other than cylinder | 100 |
| J0252 | Apply long leg cylinder plaster or fiberglass casts | 100 |
| A0036 | Remove sutures from clinic patients | 100 |
| A0037 | Remove and dispose of sharps in clinic | 100 |
| A0035 | Remove skin staples from clinic patients | 100 |
| A0027 | Prepare patients for clinic examinations | 100 |
| J0267 | Apply short arm sugar tong plaster or fiberglass splints | 100 |
| J0250 | Apply long arm sugar tong plaster or fiberglass splints | 100 |
| J0246 | Apply long arm cylinder plaster or fiberglass casts | 100 |
| A0040 | Review expiration dates on clinics' sterile instruments, supplies, or drugs | 100 |
| A0002 | Answer appointment telephone lines | 83 |
| A0009 | Contact new patients for appointments | 83 |
| J0279 | Assist physicians with closed reduction of fractures | 83 |
| A 0022 | Order v. rove | 83 |

REPRESENTATIVE TASKS PERFORMED BY DAFSC 4N151C

| | | PERCENT |
|--------|---|------------|
| | | MEMBERS |
| TACIZO | | PERFORMING |
| TASKS | | (N=56) |
| T0005 | | |
| J0285 | Remove splints | 100 |
| J0284 | Remove casts | 100 |
| J0282 | Prepare patients for removal of casts or splints | · 100 |
| A0036 | Remove sutures from clinic patients | 100 |
| J0250. | Apply long arm sugar tong plaster or fiberglass splints | 100 |
| A0023 | Order x-rays | 98 |
| J0269 | Apply short leg plaster or fiberglass casts | 98 |
| A0027 | Prepare patients for clinic examinations | 98 |
| J0270 | Apply short leg plaster or fiberglass splints | 98 |
| J0272 | Apply standard long arm plaster or fiberglass casts | 98 |
| A0007 | Change dressings or packs in clinic | 98 |
| A0035 | Remove skin staples from clinic patients | .98 |
| A0037 | Remove and dispose of sharps in clinic | 98 |
| J0279 | Assist physicians with closed reduction of fractures | 98 |
| A0039 | Return unused supplies to storage areas in clinic | 98 |
| A0040 | Review expiration dates on clinics' sterile instruments, supplies, or drugs | 98 |
| A0044 | Schedule clinic patients' appointments | 96 |
| J0273 | Apply standard short arm plaster or fiberglass casts | 96 |
| J0277 | Assist physicians with orthopedic surgical procedures in clinic | 96 |
| J0267 | Apply short arm sugar tong plaster or fiberglass splints | 96 |
| J0249 | Apply long arm scaphoid plaster or fiberglass splints | 96 |
| J0251 | Apply long arm plaster or fiberglass splints, other than scaphoid or sugar | 96. |
| | tong | |
| J0253 | Apply long leg plaster or fiberglass casts, other than cylinder | 96 |
| J0254 | Apply long leg plaster or fiberglass splints | 96 |
| A0041 | Review patients' health records prior to appointments or surgery | 95 |

TABLE 38

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 4N131C AND 4N151C PERSONNEL (PERCENT MEMBERS PERFORMING)

| | | DAFSC | DAFSC | |
|--------|--|--------|----------|---|
| TASKS | | 4N131C | 4N151C | |
| | | (2.19) | (00-11) | DIFFERENCE |
| N0359 | Assemble or disassemble OR equipment, instruments, or supplies for air | 83 | 36 | 48 |
| N10257 | transportable hospitals (ATHs) | | | |
| N0337 | Assemble surgical tents | 83 | 39 | 44 |
| 00393 | Complete accident or incident reports | 83 | 39 | 44 |
| N0358 | Assemble temper tents | 83 | 43 | 40 |
| N0388 | Transfer litter patients under field conditions | 83 | 45 | 30 |
| 00402 | Consult daily assignment sheets | . 19 | 32 | 35 |
| J0274 | Apply Thomas leg splint and Pearson attachment traction devices | 29 | 36 | 2.5 |
| F0166 | Prepare forms for tissue examinations | 50 | 20 | 30 |
| 10283 | Prepare patients for traction applications | 83 | <u>5</u> | 000 |
| 00400 | Conduct safety inspections of equipment or facilities | - 23 | 6 | 07 |
| | COUNTY TO THE PROPERTY OF THE | /0 | 39 | 27 |
| A0022 | Obtain clinic patients' health records | 20 | | 1 |
| A0018 | Instruct notions in filling and formally and in the | CC | 89 | -56 |
| 010017 | fusitive patients in tilling out forms, such as patient histories or consent forms | 33 | 77 | -43 |
| 00438 | Maintain daily patient logs | * | 71 | , |
| A0010 | Coordinate intra- or inter-hospital appointments for outpatient | 17 | T + 7 | -4. |
| | consultations with other medical facilities | / 1 | 33 | -39 |
| P0478 | Maintain training records or files | * | ć | |
| 00450 | Sort or file daily administrative distribution | • ÷ | 39 | -39 |
| A0032 | Drange or distribute doils, office all all all all all all all all all al | * | 39 | -39 |
| A0043 | Schedule nationte for current | 50 | 98 | -36 |
| H0195 | Doubling or transport actions and actions and actions are actions as transport actions are actions as a contract action and actions are actions as a contract action actions are actions as a contract action actions are actions as a contract action action action actions are actions as a contract action | 33 | 70 | -36 |
| 661011 | r Ostrion of transport patients on wneelchairs | * | 34 | -34 |

REPRESENTATIVE TASKS PERFORMED BY DAFSC 4N171C PERSONNEL

| TASKS | | PERCENT MEMBERS PERFORMING (N=16) |
|-------|--|--|
| A0044 | Schedule clinic patients' appointments | 100 |
| A0002 | Answer appointment telephone lines | 100 |
| J0273 | Apply standard short arm plaster or fiberglass casts | 100 |
| J0284 | Remove casts | 100 |
| J0269 | Apply short leg plaster or fiberglass casts | 100 |
| J0285 | Remove splints | 100 |
| A0042 | Review SFs 513 (Medical Record - Consultation Sheet) | 100 |
| J0270 | Apply short leg plaster or fiberglass splints | 100 |
| A0023 | Order x-rays | 100 |
| J0282 | Prepare patients for removal of casts or splints | 100 |
| J0268 | Apply short arm plaster or fiberglass splints, other than scaphoid or | 100 |
| | sugar tong | 100 |
| J0281 | Instruct patients in use of orthopedic appliances | 100 |
| J0277 | Assist physicians with orthopedic surgical procedures in clinic | 100 |
| J0251 | Apply long arm plaster or fiberglass splints, other than scaphoid or sugar | 100 |
| | tong | 100 |
| J0267 | Apply short arm sugar tong plaster or fiberglass splints | 100 |
| A0036 | Remove sutures from clinic patients | 100 |
| A0005 | Brief patients on clinical policies | 100 |
| A0037 | Remove and dispose of sharps in clinic | 100 |
| A0035 | Remove skin staples from clinic patients | 100 |
| J0254 | Apply long leg plaster or fiberglass splints | 100 |
| O0405 | Destroy Privacy Act materials or documents | 100 |
| O0396 | Conduct general meetings, such as staff meetings, briefings, conferences, or workshops | 100 |
| J0252 | Apply long leg cylinder plaster or fiberglass casts | 100 |
| O0421 | Evaluate job hazards or compliance with Air Force Occupational Safety | 100 |
| | and Health (AFOSH) program | |
| A0009 | Contact new patients for appointments | 94 |

TABLE 40

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 4N151C AND DAFSC 4N171C PERSONNEL (PERCENT MEMBERS PERFORMING)

| 23 27 21 21 29 23 | 04 | |
|----------------------------------|---------------------------|---------------|
| 5 | 1 | 15 |
| : I I 8 8 | 76 | 1/- |
| 3 9 11 | * 8 8 | 79- |
| ο ε ε | . & & | 99- |
| 33 | 94 | -65 |
| | 88 | -64 |
| 38 | 100 | -63 |
| · ∝ | ~ | 7 |
| 30 | 94 | -63 |
| 2 | 94 | -62 |
| 4 | 75 | -61 |
| 4 | 94 | - 09 - |
| | 100 | . 65- |
| 9 | 75 | -50 |
| 9 | 75 | -50 |
| 36 | 94 | -58 |
| 36 | 94 | -58 |
| 30 | 88 | -57 |
| 32 | 88 | -55 |
| 20 | 75 | -55 |
| 6 | 63 | -54 |
| | 0 7 7 7 7 9 9 9 9 0 7 0 - | |

supervisory duties, they indicate spending some time performing technical tasks (see Table 35). Representative tasks performed by members of this group are listed in Table 39.

Tasks which best distinguish DAFSC 4N171C personnel from 5-skill level members are shown in Table 40. Seven-skill level members show a distinct increase in the amount of supervisory and management tasks performed. Examples of tasks with the greatest difference in members performing include determining training requirements, interpreting policies, directives, or procedures for subordinates, evaluating inspection report findings or inspection procedures, briefing personnel concerning training programs or matters, writing recommendations for awards or decorations, conducting general meetings, such as staff meetings, briefings, conferences, or workshops, and assigning sponsors for newly assigned personnel.

TRAINING ANALYSIS

Occupational survey data are sources of information, which can be useful in the development, and revision of relevant training programs for entry-level personnel. Factors used to evaluate entry-level AFSC 4N1X1C Surgical Services training include jobs being performed by first-enlistment (1-48 months TAFMS) personnel, overall distribution of first-enlistment personnel across career ladder jobs, percent first-job (1-24 months TAFMS) and first-enlistment members spend performing specific tasks or using specific equipment items, ratings of how much TE tasks should receive in formal training, and ratings of relative TD.

First-Enlistment Personnel

The three AFSC 4N1X1C members with 1-48 months TAFMS represent 4 percent of all surveyed AFSC 4N1X1C personnel. These personnel work primarily in the Clinic NCOIC Job and Surgical Services Cluster (see Figure 6). Table 41 shows these first-enlistment personnel spending approximately 47 percent of their time performing tasks related to general clinical activities and orthopedic activities, with an additional 19 percent performing sterile operating room activities. Representative tasks performed by first-enlistment AFSC 4N1X1C personnel are displayed in Table 42. Examples of these tasks are scheduling clinic patients' appointments, removing splints, preparing patients for removal of casts or splints, removing casts, ordering x-rays, reviewing patients' health records prior to appointments or surgery, assisting physicians with closed reduction of fractures, and removing sutures from clinic patients.

Table 43 lists special tools or equipment used or operated by AFSC 4N1X1C first-enlistment personnel. Some examples of this equipment include the electric tourniquet devices, surgical stapling devices, hand surgical saws, battery saws, stationary surgical lights, battery surgical drills, orthopedic fracture tables, and hand tables.

4N1X1C FIRST ENLISTMENT PERSONNEL (N=3)

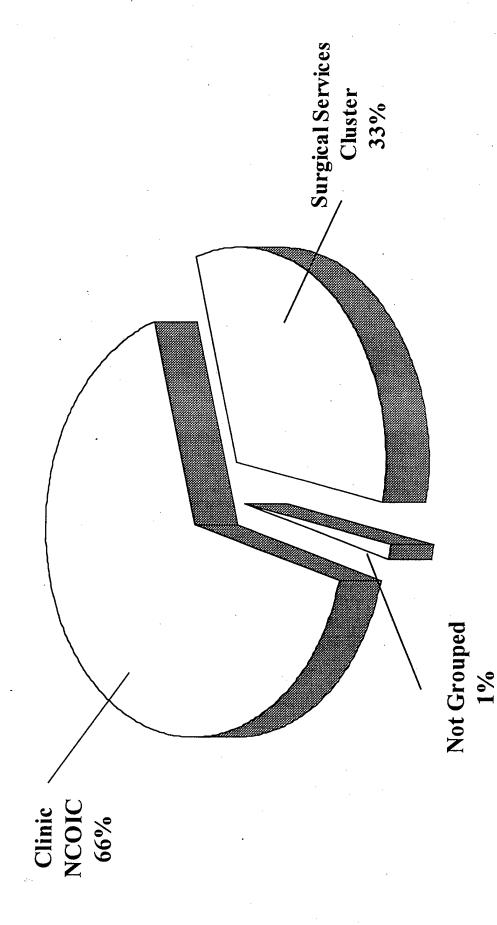


FIGURE 7

RELATIVE PERCENT OF TIME SPENT ACROSS DUTIES BY FIRST-ENLISTMENT AFSC 4N1X1C PERSONNEL

| | | PERCENT |
|----|--|---------|
| | | TIME |
| DI | UTIES | SPENT |
| | | |
| Α | PERFORMING GENERAL CLINICAL ACTIVITIES | 24 |
| В | PERFORMING CENTRAL STERILE SUPPLY (CSS) ACTIVITIES | 8 |
| C | PERFORMING ANESTHESIA SUPPORT ACTIVITIES | * |
| D | PERFORMING STERILE OPERATING ROOM ACTIVITIES | 19 |
| E | PERFORMING NONSTERILE PREOPERATIVE OPERATING ROOM | 4 |
| | ACTIVITIES | |
| F | PERFORMING NONSTERILE INTRAOPERATIVE OPERATING ROOM | 7 |
| | ACTIVITIES | |
| G | PERFORMING NONSTERILE POSTOPERATIVE OPERATING ROOM | 4 |
| | ACTIVITIES | |
| H | PERFORMING OPERATING ROOM TRANSPORT OR OUTSIDE FLOAT | 4 |
| | ACTIVITIES | |
| I | PERFORMING OTORHINOLARYNGOLOGY (ENT) ACTIVITIES | . * |
| J | PERFORMING ORTHOPEDIC ACTIVITIES | 23 |
| K | PERFORMING UROLOGY ACTIVITIES | 0 |
| L | PERFORMING RESEARCH ACTIVITIES | 0 |
| M | PERFORMING LOGISTICS OR RESOURCE MANAGEMENT ACTIVITIES | . 2 |
| N | PERFORMING MEDICAL READINESS ACTIVITIES | 2 |
| 0 | PERFORMING ADMINISTRATIVE OR MANAGEMENT ACTIVITIES | 1 |
| P | PERFORMING TRAINING ACTIVITIES | 1 |

^{*} Indicates less than 1 percent

TABLE 42

REPRESENTATIVE TASKS PERFORMED BY FIRST-ENLISTMENT AFSC 4N1X1C PERSONNEL

| TASKS | | PERCENT MEMBERS PERFORMING (N=3) |
|---------------|---|---|
| A0044 | Schedule clinic patients' appointments | 100 |
| J0285 | Remove splints | 100 |
| J0282 | Prepare patients for removal of casts or splints | 100 |
| J0284 | Remove casts | 100 |
| A0023 | Order x-rays | 100 |
| A0041 | Review patients' health records prior to appointments or surgery | 100 |
| J0277 | Assist physicians with closed reduction of fractures | 100 |
| A0036 | Remove sutures from clinic patients | 100 |
| A0035 | Remove skin staples from clinic patients | 100 |
| A0037 | Remove and dispose of sharps in clinic | 100 |
| D0135 | Perform sterile draping of surgical equipment, such as microscopes or x-ray units | 100 |
| A0027 | Prepare patients for clinic examinations | 100 |
| D 0120 | Assist surgeons in applying sterile drapes while scrubbed | 100 |
| D 0125 | Don or doff surgical attire, other than sterile gowns or gloves, for operating room (OR) activities | 100 |
| D 0133 | Perform hand and arm scrubs | 100 |
| D 0131 | Pass instruments or supplies to operating team members using traditional techniques | 100 |
| A0007 | Change dressings or packs in clinic | 100 |
| J0266 | Apply short arm scaphoid plaster or fiberglass splints | 100 |
| J0267 | Apply short arm sugar tong plaster or fiberglass splints | 100 |
| A0003 | Answer patient medical inquires | 100 |
| A0002 | Answer appointment telephone lines | 67 |

SPECIAL TOOLS OR EQUIPMENT USED OR OPERATED BY 4N1X1C FIRST-ENLISTMENT PERSONNEL (PERCENT MEMBERS RESPONDING)

| SPECIAL TOOLS/EQUIPMENT | 1ST ENL |
|---|-----------|
| SI ECIAL TOOLS/EQUIFMENT | (N=3) |
| Electric Tourniquet Devices | 100 |
| Surgical Stapling Devices | |
| Hand Surgical Saws | 100 |
| Battery Surgical Saws | 100 |
| Stationary Surgical Lights | 100 |
| Battery Surgical Drills | 100 |
| Orthopedic Fracture Tables and Accessories | 100 |
| Hand Tables | 100 |
| Fiber Optic Light Sources | 100 |
| Cast Carts | 100 |
| Cast Saws | 100 |
| Stationary X-Ray Machines | 100 67 |
| Portable X-Ray Machines | |
| Portable X-Ray Fluoroscopy Units | 67 |
| Traction Devices | 67 |
| Gas-Powered Surgical Saws | 67 |
| Electric Surgical Saws | 67 |
| Portable Surgical Microscopes | 67 |
| Hand Surgical Drills | 67 |
| Stationary Suction Units | 67 |
| Steam (Flash) Sterilizers | 67 |
| Gravity Displacement Steam Sterilizers | 67 |
| Specialized Retractors | 67 |
| Int & Ext Ortho Fracture Fixation Instruments | 67 |
| | 67 |
| Manual Control Operating (Surgical) Tables | 67 |

JOB SATISFACTION ANALYSIS

An examination of job satisfaction indicators can give career ladder managers a better understanding of factors that may affect the job performance of career ladder airmen. Therefore, the disks included attitude questions covering job interest, perceived utilization of talents and training, sense of accomplishment from work, and reenlistment intentions. The responses of the current survey sample were analyzed by making comparisons among TAFMS groups of the AFSC 4N1X1C career ladders and a comparative sample of personnel from other Medical AFSCs surveyed in 1997.

Comparison of job satisfaction indicators in the AFSC 4N1X1C TAFMS groups to the comparative sample shows a generally lower job satisfaction (see Table 44). First-enlistment members appear to show a higher expressed job interest and sense of accomplishment from job than the other TAFMS groups, but have a much lower perceived use of talents, perceived use of training, and reenlistment intentions. Reenlistment intentions increase with time in service across TAFMS groups, with first-enlistment personnel least likely to reenlist in comparison to the other medical groups and the other "C" shred TAFMS groups.

IMPLICATIONS

As explained in the INTRODUCTION, this survey was conducted primarily to ensure current data for use in evaluating the effectiveness of training within the Surgical Services specialty. "C" shred data compiled from this survey show current members follow a typical career progression pattern. The present classification structure, as described in AFMAN 36-2108 Airman Classification, accurately portrays the "C" shred jobs in this study.

Job satisfaction analysis reveals first-enlistment (1-48 months TAFMS) personnel don't feel they are utilizing their talents or training within their job and 67 percent are not planning to reenlist. For the most part, the remaining respondents appear satisfied with their jobs. The only area that needs to be examined is the low percentage of members that plan to reenlist for the 1-48 month's TAFMS group.

TABLE 44

COMPARISON OF JOB SATISFACTION INDICATORS FOR AFSC 4N1X1C TAFMS GROUPS IN CURRENT STUDY TO A COMPARATIVE SAMPLE (PERCENT MEMBERS RESPONDING)

| | 1-48 MON | 1-48 MONTHS TAFMS | . 49-96 | 49-96 MONTHS | V +26 | 97+ MONTHS |
|--|-----------------|---------------------------|------------------|---------------------------|------------------|----------------------------|
| | 4N1X1C (N=3) | COMP SAMPLE (N=711) | 4N1X1C (N=29) | COMP SAMPLE (N=446) | 4N1X1C (N=46) | COMP SAMPLE (N=1018) |
| EXPRESSED JOB INTEREST | | | | | | • |
| INTERESTING SO-SO DULL | 0 0 | 70 18 12 | 90 10 | 76 15 9 | 24 4 | 81 13 6 |
| PERCEIVED USE OF TALENTS | | | | | | |
| FAIRLY WELL TO PERFECT LITTLE OR NOT AT ALL | 67 | 78 | 93 | 84 16 | 74 26 | 88 12 |
| PERCEIVED USE OF TRAINING: | | | | | | |
| FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL | 67 | 93 | 86 14 | 8 | 80 20 | 88 |
| SENSE OF ACCOMPLISHMENT FROM JOB | | | | | | ! |
| SATISFIED NEUTRAL DISSATISFIED | 1000 | 71 14 15 | 97 0 | 75 14 11 | 78 7 15 | 78 8 14 |
| REENLISTMENT INTENTIONS | ÷ | | | | | |
| YES OR PROBABLY YES NO OR PROBABLY NO WILL RETIRE | 33 67 0 | 51 49 0 | 52 45 3 | 64 35 1 | 76 9 15 | 71 71 10 |
| NOTE: Columns may not add to 100 nercent due to rounding | or nonresnonse | | | | | |

NOTE: Columns may not add to 100 percent due to rounding or nonresponse Comparative data are from Medical AFSCs surveyed in 1997

PART FOUR AFSC 4N1X1D

Analysis of DAFSC Groups

The distribution of AFSC 4N1X1D skill-level members across career ladder jobs is displayed in Table 45. A vast majority of 3- and 5-skill level members are represented in Otorhinolaryngology (ENT) Technician Job. This job represents the core work of the AFSC 4N1X1D career ladder. Table 46 displays the relative percent time spent on each duty across skill level groups. As "D" shred personnel progress through the career ladder, their job remains technical through the 5-skill level and becomes more supervisory at the 7-skill level. The career ladder progression is typical of most AFSCs. Discussed below are specific skill-level descriptions.

Skill-Level Descriptions

<u>DAFSC 4N131D</u>. The 5 3-skill level personnel, representing less than 1 percent of the survey sample, perform an average of 129 tasks. The 3-skill level personnel only perform two jobs, with most in the ENT Technician Job and a small percentage in the Clinic NCOIC Job (see Table 45). While spending 51 percent of their time performing general clinical activities, and performing sterile operating room activities (see Table 46), they also spend 12 percent of their time performing logistics or resource management activities. Table 47 shows these group members performing tasks such as scheduling clinic patients' appointments, answering appointment telephone lines, preparing patients for clinic examinations, removing foreign bodies from ears using suction method, briefing patients on clinical policies, and removing foreign bodies from ears using alligator forceps.

DAFSC 4N151D. The 22 "D" shred 5-skill level personnel represent 3 percent of the career ladder. Personnel perform an average of 146 tasks. Unlike the 3-skill level members, these personnel work in 4 of the 9 jobs identified in the career ladder structure. While a majority work in the ENT Technician Job, smaller percentages are found in the Clinic NCOIC Job, Surgical Logistics Job, and Supervisory and Management Job (see Table 45). They spend 39 percent of their job time performing general clinical activities and performing sterile operating room activities, with another 28 percent of their time performing logistics or resource management activities and performing administrative or management activities (see Table 46). Table 48 lists representative tasks performed by these incumbents. Table 49 shows that, like their junior counterparts, 5-skill level personnel perform the same technical tasks, but with more time spent on supervisory and training functions.

<u>DAFSC 4N171D</u>. The 8 members holding the 7-skill level represent 1 percent of the survey sample. Sixty-three percent are Technical Sergeants. As shown in Table 45, 38 percent work in the Clinic NCOIC Job; however, 26 percent are still working in the ENT Technician Job and Supervisory and Management Job. Table 46 shows that 7-skill level members spend 48 percent of

| | DISTRIBUTION OF AFSC 4N1X1D SKILL-LEVEL MEMBERS ACROSS CAREER LADDER JOBS (PERCENT MEMBERS RESPONDING) | EER LADDER J | OBS | |
|-------|--|--------------------------|---------------------------|--------------------------|
| SPEC | SPECIALTY JOBS | DAFSC 4N131D (N=5) | DAFSC 4N151D (N=22) | DAFSC 4N171D (N=8) |
| ï | SURGICAL SERVICES CLUSTER | 0 | 0 | 0 |
| | A. Entry Level Operating Room Technician Job B. Operating Room Technician Job C. Phase II Instructor | 000 | 000 | 000 |
| II. | CENTRAL STERILE SUPPY (CSS) TECHNICIAN JOB | 0 | 0 | 0 |
| III. | OTORHINOLARYNGOLOGY (ENT) TECHNICIAN JOB | 09 | . 25 | 13 |
| IV. | UROLOGY TECHNICIAN JOB | 0 | . 0 | 0 |
| > | V. ORTHOPEDIC TECHNICIAN JOB | 0 | 0 | 0 |
| M. | CLINIC NCOIC JOB | 20 | 18 | 38 |
| VII. | VII. SURGICAL LOGISTICS JOB | . 0 | ĸ | 0 |
| VIII. | SUPERVISORY AND MANAGEMENT JOB | .0 | 14 | 13 |
| X. | SUPERINTENDENT JOB | 0 | 0 | 0 |
| × | X. NOT GROUPED | 20 | ∞ | 36 |

TABLE 46

TIME SPENT ON DUTIES BY MEMBERS OF AFSC 4N1X1D SKILL-LEVEL GROUPS (RELATIVE PERCENT OF JOB TIME)

| <u>Dī</u> | JTIES | DAFSC 4N131D (N=5) | DAFSC 4N151D (N=22) | DAFSC 4N171D (N=8) |
|-----------|--|--------------------------|---------------------------|--------------------------|
| A | PERFORMING GENERAL CLINICAL ACTIVITIES | 30 | 20 | 24 |
| В | PERFORMING CENTRAL STERILE SUPPLY (CSS) ACTIVITIES | 5 | 4 | 3 |
| С | PERFORMING ANESTHESIA SUPPORT ACTIVITIES | * | 1 | * |
| D | PERFORMING STERILE OPERATING ROOM ACTIVITIES | 21 | 19 | 11 |
| E | PERFORMING NONSTERILE PREOPERATIVE OPERATING ROOM | 3 | 3 | 2 |
| | ACTIVITIES | | | |
| F | PERFORMING NONSTERILE INTRAOPERATIVE OPERATING | 6 . | 5 | 3 |
| | ROOM ACTIVITIES | | | |
| G | PERFORMING NONSTERILE POSTOPERATIVE OPERATING ROOM | 3 | 2 | 2 |
| | ACTIVITIES | | | |
| H | PERFORMING OPERATING ROOM TRANSPORT OR OUTSIDE | 1 | 2 | 2 |
| | FLOAT ACTIVITIES | | | |
| Ι. | PERFORMING OTORHINOLARYNGOLOGY (ENT) ACTIVITIES | 9 | 8 | 7 |
| J | PERFORMING ORTHOPEDIC ACTIVITIES | 0 | * | 0 |
| K | PERFORMING UROLOGY ACTIVITIES | 0 | 0 | 0 |
| L | PERFORMING RESEARCH ACTIVITIES | 0 | 0 | * |
| M | PERFORMING LOGISTICS OR RESOURCE MANAGEMENT | 12 | 14 | 13 |
| | ACTIVITIES | • | | |
| N | PERFORMING MEDICAL READINESS ACTIVITIES | 1 | 2 | 2 |
| 0 | PERFORMING ADMINISTRATIVE OR MANAGEMENT ACTIVITIES | 7 | 14 | 24 |
| P | PERFORMING TRAINING ACTIVITIES | 1 | 6 | 7 |

^{*} Indicates less than 1 percent

REPRESENTATIVE TASKS PERFORMED BY DAFSC 4N131D PERSONNEL

| | | PERCENT |
|----------------|--|------------|
| | | MEMBERS |
| TO A CITE C | | PERFORMING |
| TASKS | | (N=5) |
| | | |
| A0044 | Schedule clinic patients' appointments | 100 . |
| A0002 | Answer appointment telephone lines | 100 |
| A0027 | Prepare patients for clinic examinations | 100 |
| I0235 | Remove foreign bodies from ears using suction method | 100 |
| A0005 | Brief patients on clinical policies | 100 |
| I0233 | Remove foreign bodies from ears using alligator forceps | 100 |
| A0017 | Inspect clinic equipment or instruments for cleanliness | 100 |
| A0009 | Contact new patients for appointments | 100 |
| A0018 | Instruct patients in filling out forms, such as patient histories or consent forms | 100 |
| A0026 | • | 100 |
| A0020 A0038 | Prepare accessory equipment, such as lamps, for clinic procedures | 100 |
| A0038 | Return clinic patients' health records | 100 |
| D0114 | Prepare or distribute daily clinic schedules | 100 |
| A0043 | Assist physicians with otorhinolaryngology (ENT) procedures | 80 |
| | Schedule patients for surgery | 80 |
| I0207 | Assist physicians with otorhinolaryngology surgical procedures in clinic | 80 |
| A0004 | Assist physicians in noninvasive physical examinations | 80 |
| I0234 | Remove foreign bodies from ears using curettage method | 80 |
| B0067 | Manually clean and test flexible endoscopes | 80 |
| A0003 | Answer patient medical inquiries | 80 |
| A0030 | Prepare sterile setups for clinic procedures | 80 |
| D0104 | Assist physicians with minimally invasive procedures | 80 |
| A0041 | Review patients' health records prior to appointments or surgery | 80 |
| A0013 | Don or doff surgical attire in clinic | 80 |
| A0042 | Review SFs 513 (Medical Record - Consultation Sheet) | 80 |
| D0099 | Arrange sterile instruments and supplies on back tables while scrubbed | 80 |

REPRESENTATIVE TASKS PERFORMED BY DAFSC 4N151D PERSONNEL

| TASKS | | MEMBERS PERFORMING |
|---------------|---|-----------------------|
| IASKS | | (N=22) |
| A0002 | Answer appointment telephone lines | 91 |
| A0044 | Schedule clinic patients' appointments | 91 |
| D0114 | Assist physicians with otorhinolaryngology (ENT) procedures | 91 |
| A0017 | Inspect clinic equipment or instruments for cleanliness | 91 |
| A0039 | Return unused supplies to storage areas in clinic | 91 |
| A0040 | Review expiration dates on clinics' sterile instruments, supplies, or drugs | 91 |
| A0037 | Remove and dispose of sharps in clinic | 91 |
| A0046 | Transport clinical specimens to laboratories | 91 |
| A 0009 | Contact new patients for appointments | 86 |
| I0235 | Remove foreign bodies from ears using suction method | 8 6 |
| A0043 | Schedule patients for surgery | 86 |
| I0233 | Remove foreign bodies from ears using alligator forceps | 86 |
| I0234 | Remove foreign bodies from ears using curettage method | 86 |
| I0236 | Remove foreign bodies from ears using wire loops | 86 |
| A0031 | Prepare and drape patients for clinic procedures | 86 |
| A0038 | Return clinic patients' health records | 82 |
| D 0119 | Assist professional staff in performing counts of sponges, needles, instruments, or related supplies while scrubbed | 82 |
| D0120 | Assist surgeons in applying sterile drapes while scrubbed | 82 |
| D 0131 | Pass instruments or supplies to operating team members using traditional techniques | 82 |
| D0129 | Label drugs or solutions within sterile field | 82 |
| M0345 | Perform periodic inventories of dated medications | 82 |
| D0121 | Break down sterile fields while scrubbed | 82 |
| D0132 | Pass specimens to circulators | 82 |
| D0126 | Establish sterile fields in OR while scrubbed | 82 |
| D0099 | Arrange sterile instruments and supplies on back tables while scrubbed | 82 |

TABLE 49

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 4N131D AND DAFSC 4N151D PERSONNEL (PERCENT MEMBERS PERFORMING)

| TASKS | | DAFSC 4N131D (N=5) | DAFSC 4N151D (N=22) | DIFFERENCE |
|---|--|--------------------------|---------------------------|--------------------------|
| H0203 B0056 | Transport frozen sections to laboratories Develop or maintain customer requisition forms for CSS supplies or services | 60 | 1 * | 46 |
| A0029 A0027 F0165 A0018 | Prepare physical profile forms Prepare patients for clinic examinations Prepare disinfecting solutions for skin Instruct patients in filling out forms, such as patient histories or consent forms | 60 100 60 100 | 23 68 32 73 | 37 32 28 27 |
| G0177 F0153 | Clean OR support areas postoperatively Assist professional staff in performing counts of sponges, instruments, needles, or related supplies while circulating | 40 | 14 55 | 26 25 |
| 10205 M0325 M0346 | Apply aluminum or fiberglass nasal splints Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace Perform periodic inventories of equipment or supplies, other than dated medications | * 20 40 | 41 59 77 | -41 -39 -37 |
| M0344 I0208 I0206 O0451 A0034 | Order pharmacy supplies Clean mastoid cavities Apply anterior nasal splints Write correspondence, such as letters, point papers, or staff summary sheets Remove drains from clinic patients | 40 * * * | 77 77 36 36 | -37 -36 -36 -36 |

REPRESENTATIVE TASKS PERFORMED BY DAFSC 4N171D PERSONNEL

| | | MEMBERS PERFORMING |
|---------------|---|-----------------------|
| TASKS | | (N=8) |
| 40015 | | |
| A0017 | Inspect clinic equipment or instruments for cleanliness | 100 |
| A0002 | Answer appointment telephone lines | 100 |
| A0026 | Prepare accessory equipment, such as lamps, for clinic procedures | 100 |
| M0344 | Order pharmacy supplies | 100 |
| A0005 | Brief patients on clinical policies | 100 |
| A0036 | Remove sutures from clinic patients | 100 |
| I0235 | Remove foreign bodies from ears using suction method | 100 |
| A0039 | Return unused supplies to storage areas in clinic | 100 |
| M0356 | Verify receipt of supplies from medical logistics | 100 |
| A0027 | Prepare patients for clinic examinations | 100 |
| A0046 | Transport clinical specimens to laboratories | 100 |
| D0114 | Assist physicians with otorhinolaryngology (ENT) procedures | 100 |
| A0004 | Assist physicians in noninvasive physical examinations | 100 |
| M0341 | Order medical supplies using local purchase procedures | 100 |
| M0343 | Order nonmedical supplies using local purchase procedures | 100 |
| M0353 | Review using activity issue/turn-in lists | 100 |
| A 0040 | Review expiration dates on clinics' sterile instruments, supplies, or drugs | 100 |
| M0355 | Review backorder reports | 100 |
| A0003 | Answer patient medical inquiries | 88 |
| O0410 | Develop or establish work schedules | 88 |
| A0043 | Schedule patients for surgery | 88 |
| A0022 | Obtain clinic patients' health records | 88 |
| A0041 | Review patients' health records prior to appointments or surgery | 88 |
| A0006 | Brief physicians on patient followups | 88 |
| I0236 | Remove foreign bodies from ears using wire loops | 88 |

TABLE 51

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 4N151D AND DAFSC 4N171D PERSONNEL (PERCENT MEMBERS PERFORMING)

| TASKS | | DAFSC 4N151D (N=22) | DAFSC 4N171D | DIFFERENCE |
|-------|--|---------------------------|-----------------|------------|
| | | (== ,=) | 6 (1) | DHIENGIAGE |
| B0062 | Inspect and identify instruments for operation, repair, or salvage | 50 | 13 | 70 |
| D0112 | Assist physicians with oral surgery procedures | 3 : | C ; | 95 |
| 71107 | Assist physicians with oral surgery procedures | 41 | 13 | 28 |
| A0045 | Screen clinic patients' vital signs | 64 | 38 | 26 |
| F0159 | Identify drugs or solutions prior to transfer to sterile field while | 64 | 38 | 96 |
| | circulating |) | 3 | 07 |
| A0012 | Distribute developed photographs or slides to physicians | 20 | 25 | 36 |
| A0009 | Contact new patients for appointments | 98 | 3 6 | |
| 7700G | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | 60 | 47 |
| D004/ | Assemble instrument sets or equipment after cleaning | 73 | 20 | 23 |
| D0130 | Pass instruments or supplies to operating team members using hands-free | 73 | 50 | 23 |
| | technique | | • | 3 |
| B0080 | Sort equipment for cleaning | 45 | 25 | 00 |
| | | <u>.</u> | 1 | 04 |
| 00423 | Evaluate personnel for promotion or demotion, | 27 | 88 | 9- |
| 00393 | Collect statistical data, other than for daily patient counts or patient audit | 6 | 63 | -53 |
| | trails | | } | 3 |
| P0482 | Prepare job qualification standards (JQSs) | 6 | 63 | -53 |
| 00457 | Write or indorse military performance reports | 23 | 75 | 65 |
| 00399 | Conduct conservious norformance feedback assistant | 6 | 2 1 | 2C- |
| 0000 | Conduct supervisory periormanica regulator sessions | 7.3 | 75 | -52 |
| 00455 | write job or position descriptions | 36 | 88 | -51 |
| P0483 | Schedule training programs | 14 | 63 | -49 |
| 00431 | Initiate or maintain call rosters or workcenter pyramid recall rosters | 27 | 75 | -48 |
| 00390 | Assign personnel to work areas or duty positions | 27 | 75 | -48 |
| | | | | |

their time performing general clinical activities and performing administrative or management activities. In addition, they spend 24 percent of their time performing sterile operating room activities and logistics or resource management activities. Table 50 lists representative tasks performed by members in the 7-skill level.

Tasks, which best distinguish DAFSC 4N151D personnel from 7-skill level members are presented in Table 51. Seven-skill level members show a marked increase in the amount of supervisory and management tasks performed. Examples of tasks with the greatest difference in members performing include evaluating personnel for promotion, demotion, collecting statistical data, other than for daily patient counts or patient audit trails, preparing job qualification standards, writing or indorsing military performance reports, and writing job or position descriptions.

TRAINING ANALYSIS

Occupational survey data are sources of information that can be useful in the development and revision of relevant training programs for entry-level personnel. Factors used to evaluate entry-level AFSC 4N1X1D Surgical Services training include jobs being performed by first-enlistment (1-48 months TAFMS) personnel, overall distribution of first-enlistment personnel across career ladder jobs, percent first-job (1-24 months TAFMS) and first-enlistment members spend performing specific tasks or using specific equipment items, ratings of how much emphasis tasks should receive in formal training, and ratings of relative task difficulty.

First-Enlistment Personnel

There are 2 members in their first-enlistment for AFSC 4N1X1D, representing 6 percent of all surveyed AFSC 4N1X1D personnel. The ENT Technician Job and Clinic NCOIC are core to the "D" shred (see Figure 7). Table 52 shows that first-enlistment members are spending 49 percent of their relative time performing general clinical activities and performing sterile operating room activities. Another 21 percent of their time is spent performing logistics or resource management activities and administrative or management activities. First-enlistment AFSC 4N1X1D personnel perform an average of 158 tasks (see Table 53) ranging from assisting physicians with otorhinolaryngology surgical procedures in clinic to removing sutures from clinic patients.

Table 54 lists special tools or equipment used or operated by AFSC 4N1X1D first-enlistment personnel. Some examples of this equipment include blood pressure monitoring equipment, fiber optic light sources, microscopic instruments, electrical control operating (surgical) tables, steam (flash) sterilizers, stationary suction units, and electric surgical drills.

4N1X1D FIRST ENLISTMENT PERSONNEL (N=2)

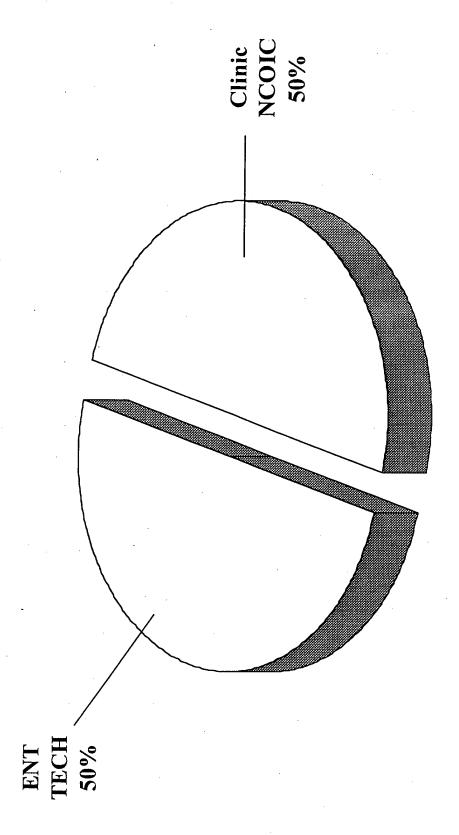


FIGURE 8

RELATIVE PERCENT OF TIME SPENT ACROSS DUTIES BY FIRST-ENLISTMENT AFSC 4N1X1D PERSONNEL

| E | OUTIES | PERCENT TIME SPENT |
|-----|--|--------------------------|
| _ | | |
| Α | PERFORMING GENERAL CLINICAL ACTIVITIES | 25 |
| . B | PERFORMING CENTRAL STERILE SUPPLY (CSS) ACTIVITIES | 4 |
| C | PERFORMING ANESTHESIA SUPPORT ACTIVITIES | . 0 |
| D | PERFORMING STERILE OPERATING ROOM ACTIVITIES | 24 |
| E | PERFORMING NONSTERILE PREOPERATIVE OPERATING ROOM | 5 |
| | ACTIVITIES | |
| F | PERFORMING NONSTERILE INTRAOPERATIVE OPERATING ROOM | 6 |
| | ACTIVITIES | • |
| G | 12.4 Claim Chorbi Blazz 1 Color Eletti 1 12 Cl Eletti 1 (Chorbi | 2 |
| | ACTIVITIES | |
| Н | 1214 Olding of Bratting Room Harrist Old October 120711 | 1 |
| т | ACTIVITIES PEDEODA MIC OTODIUDIOI ADVAICOLOGAL GARAGO ACTIVITIES | |
| I | PERFORMING OTORHINOLARYNGOLOGY (ENT) ACTIVITIES | 9 |
| J | PERFORMING ORTHOPEDIC ACTIVITIES | 0 |
| K | That ordinate ortobodi heriviimb | 0 |
| L | PERFORMING RESEARCH ACTIVITIES | 0 |
| M | The ordinate he distribution of the books with the state of the books and the books are the books and the books are the books ar | 11 |
| N | 1214 Old M. O. M. D. Old M. D. M. Old | 2 |
| 0 | PERFORMING ADMINISTRATIVE OR MANAGEMENT ACTIVITIES | 10 |
| P | PERFORMING TRAINING ACTIVITIES | . 0 |
| | | |

^{*} Indicates less than 1 percent

NOTE: Time spent does not total 100 percent due to rounding

TABLE 53

REPRESENTATIVE TASKS PERFORMED BY FIRST-ENLISTMENT AFSC 4N1X1D PERSONNEL

| | | PERCENT MEMBERS |
|-------|--|---------------------|
| TASKS | | PERFORMING (N=2) |
| I0207 | Assist physicians with otorhinolaryngology surgical procedures in clinic | 100 |
| A0018 | Instruct patients in filling out forms, such as patient histories or consent forms | 100 |
| D0129 | Label drugs or solutions within sterile field | 100 |
| A0032 | Prepare or distribute daily clinic schedules | 100 |
| D0133 | Perform hand and arm scrubs | 100 |
| A0026 | Prepare accessory equipment, such as lamps, for clinic procedures | 100 |
| A0025 | Perform initial patient screenings | 100 |
| A0030 | Prepare sterile setups for clinic procedures | 100 |
| D0122 | Correct breaks in sterile techniques by members of operating teams while scrubbed | 100 |
| A0035 | Remove skin staples from clinic patients | 100 |
| A0013 | Don or doff surgical attire in clinic | 100 |
| D0126 | Establish sterile fields in OR while scrubbed | 100 |
| A0015 | Establish patient identity/eligibility for services (DEERS) | 100 |
| A0017 | Inspect clinic equipment or instruments for cleanliness | 100 |
| D0123 | Dispose of sterile gowns or gloves | 100 |
| E0149 | Prepare formalin containers for surgical specimens | 100 |
| D0121 | Break down sterile fields while scrubbed | 100 |
| A0002 | Answer appointment telephone lines | 100 |
| D0132 | Pass specimens to circulators | 100 |
| E0140 | Arrange packaged sterile instruments and supplies on back tables while circulating | 100 |
| D0136 | Prepare and handle specimens while scrubbed | 100 |
| A0036 | Remove sutures from clinic patients | 100 |

Average number of tasks performed = 158

TABLE 54

SPECIAL TOOLS OR EQUIPMENT USED OR OPERATED BY 4N1X1D FIRST-ENLISTMENT PERSONNEL (PERCENT MEMBERS RESPONDING)

| | 1ST ENL |
|--|---------|
| SPECIAL EQUIPMENT/TOOLS | (N=2) |
| | |
| Blood Pressure Monitoring Equipment | 100 |
| Fiber Optic Light Sources | 100 |
| Microscopic Instruments | 100 |
| Electrical Control Operating (Surgical) Tables | 100 |
| Steam (Flash) Sterilizers | 100 |
| Stationary Suction Units | 100 |
| Electric Surgical Drills | 100 |
| Portable Surgical Lights | 100 |
| Stationary Surgical Lights | 100 |
| Portable Surgical Microscopes | 100 |
| Tympanometers | 100 |
| Bronchoscopes and Accessories | 50 · |
| Powered Dermatomes | 50 |
| Flexible Fiber Optic Endoscopes | 50 |
| Rigid Endoscopes | 50 |
| Gastroscopes and Accessories | 50 |
| Nerve Stimulators | 50 |
| Manual Control Operating (Surgical) Tables | 50 |
| Stationary Operating (Surgical) Tables | 50 |

JOB SATISFACTION ANALYSIS

An examination of job satisfaction indicators can give career ladder managers a better understanding of factors that may affect the job performance of career ladder airmen. Therefore, the survey booklet included attitude questions covering job interest, perceived utilization of talents and training, sense of accomplishment from work, and reenlistment intentions. The responses of the current survey sample were analyzed by making comparisons among TAFMS groups of the AFSC 4N1X1D career ladders and a comparative sample of personnel from other Medical AFSCs surveyed in 1997.

Table 55 reflects similar results for AFSC 4N1X1D members as found in the other shreds of the career ladder. Overall job satisfaction appears slightly less than the comparative sample. First-enlistment personnel, however, report higher job satisfaction indicators in all five areas. The probability of 49-96 months TAFMS members reenlisting is fairly low in comparison to other groups and the comparative sample. Second-enlistment members reported the lowest sense of accomplishment from the job. Finally, the 97+ month group job interest was slightly lower in the areas of perceived use of talents, sense of accomplishment from job, and perceived use of training, but had a higher expressed job interest than the comparative sample.

IMPLICATIONS

As explained in the INTRODUCTION, this survey was conducted primarily to ensure current data for use in evaluating the effectiveness of training within the Surgical Services specialty. "D" shred data compiled from this survey show current members follow a typical career progression pattern. The present classification structure, as described in AFMAN 36-2108 Airman Classification, accurately portrays the "D" shred jobs in this study.

Job satisfaction data indicate first-enlistment AFSC 4N1X1D personnel are very satisfied with their jobs. Second-enlistment AFSC 4N1X1D personnel are less satisfied with their jobs than the comparative sample in all areas. No serious job satisfaction problems appear to exist in the "D" shred members except when you look at reenlistment intentions for the 49-96 months TAFMS group.

The findings of this OSR come directly from survey data collected from AFSC 4N1X1D personnel worldwide. Much of the data are compiled into extracts, which are excellent tools in the decision-making process. These data extracts should be used when training or utilization decisions are made.

COMPARISON OF JOB SATISFACTION INDICATORS FOR AFSC 4N1X1D TAFMS GROUPS IN CURRENT STUDY TO A COMPARATIVE SAMPLE (PERCENT MEMBERS RESPONDING)

| | 1-48 MON | 1-48 MONTHS TAFMS | 49-96 | 49-96 MONTHS | √1+79 | 97+ MONTHS |
|--|-----------------|---------------------------|------------------|---------------------------|-----------------|----------------------------|
| EXPRESSED JOB INTEREST | 4NIXID (N=2) | COMP SAMPLE (N=711) | 4N1X1D (N=12) | COMP SAMPLE (N=446) | 4N1XD (N=21) | COMP SAMPLE (N=1018) |
| INTERESTING SO-SO DULL | 100 0 | 70 18 12 | 75 8 17 | 76 15 9 | 26 4 4 | 67 19 14 |
| PERCEIVED USE OF TALENTS FAIRLY WELL TO PERFECT LITTLE OR NOT AT ALL | 100 | 78 | 75 | 84 16 | 47 30 | |
| PERCEIVED USE OF TRAINING: | | • | ١. | | 3 | |
| FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL | 100 0 | 93 | 94 | 8 8 | 80 | 81 19 |
| SENSE OF ACCOMPLISHMENT FROM JOB | • | | | | | |
| SATISFED NEUTRAL DISSATISFED | 100 0 0 | 70 15 15 | 59 8 33 | 75 14 11 | 78 7 15 | 80 10 10 |
| REENLISTMENT INTENTIONS | | | | | | |
| YES OR PROBABLY YES NO OR PROBABLY NO WILL RETIRE | 100 0 . | 51 49 0 | 42 58 0 | 64 35 1 | 76 9 15 | 70 25 5 |

NOTE: Columns may not add to 100 percent due to rounding or nonresponse Comparative data are from Medical AFSCs surveyed in 1998

APPENDIX A

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TABLE I

SURGICAL SERVICES CLUSTER (ST043)

GROUP SIZE: 478
PERCENT OF SAMPLE: 63%
PREDOMINANT GRADE: E-3

AVERAGE TICF: 5 YRS AVERAGE TAFMS: 6 YRS

AVERAGE NUMBER OF TASKS PERFORMED: 143

| REPRES | SENTATIVE TASKS | MEMBERS PERFORMING |
|---------------|---|-----------------------|
| D0126 | Establish sterile fields in OR while scrubbed | 99 |
| D0133 | Perform hand and arm scrubs | 99 |
| D0127 | Identify and properly manage dirty instruments or contaminated field | 99 |
| D0124 | Don or doff sterile gowns or gloves | 99 |
| D0132 | Pass specimens to circulators | 99 |
| D0134 | Perform preliminary cleaning of soiled instruments prior to return to CSS | 98 |
| D0129 | Label drugs or solutions within sterile field | 98 |
| D0136 | Prepare and handle specimens while scrubbed | 98 |
| D0120 | Assist surgeons in applying sterile drapes while scrubbed | 98 · |
| D0128 | Identify drugs or solutions prior to accepting transfer to sterile field while scrubbed | 97 |
| D0099 | Arrange sterile instruments and supplies on back tables while scrubbed | 97 |
| D0122 | Correct breaks in sterile techniques by members of operating teams while scrubbed | 97 |
| D0123 | Dispose of sterile gowns or gloves | 97 |
| D0097 | Adjust Mayo instrument tray stands while scrubbed | 97 |
| D0119 | Assist professional staff in performing counts of sponges, needles, instruments, or related supplies while scrubbed | 96 |
| D 0118 | Assist professional staff in donning or doffing sterile gowns or gloves while scrubbed | 96 |
| D0131 | Pass instruments or supplies to operating team members using traditional techniques | 96 |
| E0150 | Pull surgical supplies, instruments, or equipment | 96 |
| E0143 | Open sterile supplies, such as muslin-wrapped, paper-wrapped, or peel-packaged sterile supplies | 96 |
| D0121 | Break down sterile fields while scrubbed | 95 |
| D0098 | Adjust overhead operating lights while scrubbed | 95 |
| F0155 | Assist sterile team members with donning or removing surgical attire | 95 |

TABLE II

ENTRY-LEVEL OPERATING ROOM TECHNICIAN JOB (ST046)

| GROUP SIZE: 34 |
|-----------------------|
| PERCENT OF SAMPLE: 4% |
| DDEMONDANIE OD LDE D |

AVERAGE TICF: 2 YRS AVERAGE TAFMS: 3 YRS

PREDOMINANT GRADE: E-3

AVERAGE NUMBER OF TASKS PERFORMED: 21

| TASKS | | PERCENT MEMBERS PERFORMING |
|---------------|---|----------------------------------|
| D0126 | Establish sterile fields in OR while scrubbed | 100 |
| D0129 | Label drugs or solutions within sterile field | 100 |
| D0132 | Pass specimens to circulators | 100 |
| D0134 | Perform preliminary cleaning of soiled instruments prior to return to CSS | 97 |
| D0136 | Prepare and handle specimens while scrubbed | 97 |
| D0123 | Dispose of sterile gowns or gloves | 97 |
| D0133 | Perform hand and arm scrubs | 94 |
| D0131 | Pass instruments or supplies to operating team members using traditional techniques | 94 |
| D0127 | Identify and properly manage dirty instruments or contaminated field | 94 |
| D0124 | Don or doff sterile gowns or gloves | 94 |
| D0119 | Assist professional staff in performing counts of sponges, needles, instruments, or related supplies while scrubbed | 91 |
| D0128 | Identify drugs or solutions prior to accepting transfer to sterile field while scrubbed | 91 |
| D0099 | Arrange sterile instruments and supplies on back tables while scrubbed | 88 |
| D0120 | Assist surgeons in applying sterile drapes while scrubbed | 88 |
| D0097 | Adjust Mayo instrument tray stands while scrubbed | 88 |
| D 0135 | Perform sterile draping of surgical equipment, such as microscopes or x-ray units | 88 |
| D0121 | Break down sterile fields while scrubbed | 85 |
| D0118 | Assist professional staff in donning or doffing sterile gowns or gloves while scrubbed | 85 |
| D0122 | Correct breaks in sterile techniques by members of operating teams while scrubbed | 85 |
| D0098 | Adjust overhead operating lights while scrubbed | 85 |
| D0137 | Prepare and handle surgical implants while scrubbed | 79 |
| D0125 | Don or doff surgical attire, other than sterile gowns or gloves, for operating room (OR) activities | 76 |

TABLE III

OPERATING ROOM TECHNICIAN JOB (ST048)

| GROUP | SIZE: | 434 |
|-------|-------|-----|
|-------|-------|-----|

AVERAGE TICF: 5 YRS

PERCENT OF SAMPLE: 57%

AVERAGE TAFMS: 6 YRS

PREDOMINANT GRADE: E-3

AVERAGE NUMBER OF TASKS PERFORMED: 151

| TASKS | | PERCENT MEMBERS PERFORMING |
|-------|---|----------------------------------|
| D0133 | Perform hand and arm scrubs | 99 |
| D0126 | Establish sterile fields in OR while scrubbed | 99 |
| D0127 | Identify and properly manage dirty instruments or contaminated field | 99 |
| D0124 | Don or doff sterile gowns or gloves | 99 |
| D0120 | Assist surgeons in applying sterile drapes while scrubbed | 99 |
| D0132 | Pass specimens to circulators | 99 |
| D0136 | Prepare and handle specimens while scrubbed | 98 |
| D0099 | Arrange sterile instruments and supplies on back tables while scrubbed | 98 |
| D0134 | Perform preliminary cleaning of soiled instruments prior to return to CSS | 98 |
| D0128 | Identify drugs or solutions prior to accepting transfer to sterile field while scrubbed | 98 |
| D0129 | Label drugs or solutions within sterile field | 98 |
| D0097 | Adjust Mayo instrument tray stands while scrubbed | 98 |
| D0122 | Correct breaks in sterile techniques by members of operating teams while scrubbed | 98 |
| E0150 | Pull surgical supplies, instruments, or equipment | 98 |
| E0143 | Open sterile supplies, such as muslin-wrapped, paper-wrapped, or peel-packaged sterile supplies | 98 |
| D0118 | Assist professional staff in donning or doffing sterile gowns or gloves while scrubbed | 97 |
| D0119 | Assist professional staff in performing counts of sponges, needles, instruments, or related supplies while scrubbed | 97 |
| F0155 | Assist sterile team members with donning or removing surgical attire | 97 |
| D0123 | Dispose of sterile gowns or gloves | 97 |
| D0098 | Adjust overhead operating lights while scrubbed | 97 |
| G0189 | Stock OR with sterile or nonsterile supplies | 97 |
| D0121 | Break down sterile fields while scrubbed | 96 |
| D0108 | Assist physicians with general surgery procedures | 96 |

TABLE IV

PHASE II INSTRUCTORS (ST056)

GROUP SIZE: 9

AVERAGE TICF: 9 YRS
AVERAGE TAFMS: 11 YRS

PERCENT OF SAMPLE: 1% PREDOMINANT GRADE: E-5

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AVERAGE NUMBER OF TASKS PERFORMED: 134

| TASKS | | MEMBERS PERFORMING |
|-------|--|-----------------------|
| P0466 | Conduct on-the-job training (OJT) | 100 |
| G0180 | Doff personal protective attire | 100 |
| E0142 | Establish sterile fields in OR as circulator | 100 |
| F0173 | Transfer patients to or from OR tables | 100 |
| E0150 | Pull surgical supplies, instruments, or equipment | 100 |
| F0160 | Identify breaks in sterile techniques by members of operating teams while circulating | 100 |
| G0189 | Stock OR with sterile or nonsterile supplies | 100 |
| E0145 | Perform initial or between-case cleaning of OR | 100 |
| E0144 | Perform initial or between-case cleaning of equipment | 100 |
| F0162 | Position patients on operating tables | 100 |
| F0155 | Assist sterile team members with donning or removing surgical attire | 100 |
| F0163 | Position sterile tables or related equipment, such as monitors, microscopes, or lasers | 100 |
| F0156 | Assist surgeons in applying sterile drapes while circulating | 100 |
| F0152 | Apply electrosurgical devices to patients | 100 |
| F0159 | Identify drugs or solutions prior to transfer to sterile field while circulating | 100 |
| F0165 | Prepare disinfecting solutions for skin | 100 |
| G0176 | Change compressed medical gas tanks on OR equipment | 100 |
| F0161 | Perform surgical skin cleansings | 100 |
| E0146 | Perform operator maintenance inspections of OR equipment | 100 |
| P0467 | Counsel trainees on training progress | 89 |
| P0476 | Evaluate progress of trainees | 89 |
| O0402 | Consult daily assignment sheets | 89 |
| P0465 | Conduct individual training sessions | 89 |
| P0468 | Determine training requirements | 89 |
| O0433 | Inspect personnel for compliance with military standards | 89 |

TABLE V

CENTRAL STERILE SUPPLY (CSS) TECHNICIAN JOB (ST069)

GROUP SIZE: 12

AVERAGE TICF: 6 YRS

PERCENT OF SAMPLE: 2%

AVERAGE TAFMS: 7 YRS

PREDOMINANT GRADE: E-4

AVERAGE NUMBER OF TASKS PERFORMED: 43

| TASKS | | PERCENT MEMBERS PERFORMING |
|-------|--|----------------------------------|
| B0081 | Wrap and label instrument sets for sterilization | 100 |
| B0074 | Prepare and sterilize items using paper, plastic, or paper and plastic peel- packs | 100 |
| B0062 | Inspect and identify instruments for operation, repair, or salvage | 100 |
| B0064 | Load or unload CSS sterilizers | 100 |
| B0061 | Fold linens for sterilization | 100 |
| B0072 | Pick up soiled or contaminated items from using units | 100 |
| B0047 | Assemble instrument sets or equipment after cleaning | 92 |
| B0052 | Clean instruments or equipment for storage or reprocessing | 92 |
| B0075 | Prepare and sterilize items using rigid sterilization containers | 92 |
| B0068 | Monitor CSS sterilizer effectiveness using biological indicators | 92 |
| B0073 | Prepare surgical supplies or instruments from CSS stock | 92 |
| B0071 | Perform routine chemical disinfection of surgical instruments or supplies in CSS | 92 |
| B0059 | Disassemble equipment or instruments in CSS in preparation for manual or mechanical cleaning | 92 |
| B0053 | Clean and lubricate surgical instruments and powered equipment | 92 |
| B0060 | Dispose of biocontaminated items from CSS | 92 |
| B0055 | Dèliver clean or sterile items to using units | 92 |
| B0078 | Review expiration dates on sterile items stored in CSS | 92 |
| B0050 | Clean CSS sterilizers | 92 |
| B0080 | Sort equipment for cleaning | 83 |
| B0069 | Monitor CSS sterilizer effectiveness using chemical indicators | 83 |
| B0063 | Inventory surgical instruments, supplies, or equipment stored in CSS | 83 |
| B0070 | Perform operational tests on equipment | 83 |

TABLE VI

OTORHINOLOARYNGOLOGY (ENT) TECHNICIAN JOB (ST0128)

GROUP SIZE: 20 PERCENT OF SAMPLE: 3% AVERAGE TICF: 6 YRS AVERAGE TAFMS: 8 YRS

PREDOMINANT GRADE: E-4/E-5

AVERAGE NUMBER OF TASKS PERFORMED: 133

| | | PERCENT MEMBERS |
|---------|---|--------------------|
| TASKS | · | PERFORMING |
| | | |
| A0002 | Answer appointment telephone lines | 100 |
| A0044 | Schedule clinic patients' appointments | 100 |
| A0043 | Schedule patients for surgery | 100 |
| D0121 | Break down sterile fields while scrubbed | 100 |
| D0131 | Pass instruments or supplies to operating team members using traditional techniques | 100 |
| D0120 | Assist surgeons in applying sterile drapes while scrubbed | 100 |
| D0127 | Identify and properly manage dirty instruments or contaminated field | 100 |
| D0126 | Establish sterile fields in OR while scrubbed | 100 |
| D0099 | Arrange sterile instruments and supplies on back tables while scrubbed | 100 |
| D0133 | Perform hand and arm scrubs | 100 |
| A0017 | Inspect clinic equipment or instruments for cleanliness | 100 |
| D0119 | Assist professional staff in performing counts of sponges, needles, instruments, or related supplies while scrubbed | 100 |
| D0124 | Don or doff sterile gowns or gloves | 100 |
| D0123 | Dispose of sterile gowns or gloves | 100 |
| D0128 | Identify drugs or solutions prior to accepting transfer to sterile field while scrubbed | 100 |
| D0118 | Assist professional staff in donning or doffing sterile gowns or gloves while scrubbed | 100 |
| A0038 | Return clinic patients' health records | 100 |
| D0132 | Pass specimens to circulators | 100 |
| D0136 | Prepare and handle specimens while scrubbed | 100 |
| D0097 | Adjust Mayo instrument tray stands while scrubbed | 100 |
| D0122 | Correct breaks in sterile techniques by members of operating teams while scrubbed | 100 |
| D0098 | Adjust overhead operating lights while scrubbed | 100 |
| A0039 · | Return unused supplies to storage areas in clinic | 100 |
| A0037 | Remove and dispose of sharps in clinic | 100 |

TABLE VII

UROLOGY TECHNICIAN JOB (ST0102)

GROUP SIZE: 25

AVERAGE TICF: 5 YRS

PERCENT OF SAMPLE: 3%

AVERAGE TAFMS: 12 YRS

PREDOMINANT GRADE: E-5

AVERAGE NUMBER OF TASKS PERFORMED: 171

| | | PERCENT MEMBERS |
|-------|---|--------------------|
| TASKS | | PERFORMING |
| A0002 | Answer appointment telephone lines | 100 |
| D0115 | Assist physicians with urological surgery procedures | 100 |
| A0044 | Schedule clinic patients' appointments | 100 |
| A0031 | Prepare and drape patients for clinic procedures | 100 |
| A0030 | Prepare sterile setups for clinic procedures | 100 |
| K0293 | Instill xylocaine jellies intraurethrally | 100 |
| A0027 | Prepare patients for clinic examinations | 100 |
| K0287 | Catheterize urology patients | 100 |
| A0026 | Prepare accessory equipment, such as lamps, for clinic procedures | 100 |
| D0131 | Pass instruments or supplies to operating team members using traditional techniques | 100 |
| D0126 | Establish sterile fields in OR while scrubbed | 100 |
| D0133 | Perform hand and arm scrubs | 100 |
| D0121 | Break down sterile fields while scrubbed | 100 |
| A0017 | Inspect clinic equipment or instruments for cleanliness | 100 |
| D0123 | Dispose of sterile gowns or gloves | 100 |
| D0125 | Don or doff surgical attire, other than sterile gowns or gloves, for operating room (OR) activities | 100 |
| D0128 | Identify drugs or solutions prior to accepting transfer to sterile field while scrubbed | 100 |
| D0132 | Pass specimens to circulators | 100 |
| A0005 | Brief patients on clinical policies | 100 |
| D0129 | Label drugs or solutions within sterile field | . 100 |
| D0097 | Adjust Mayo instrument tray stands while scrubbed | 100 |
| A0040 | Review expiration dates on clinics' sterile instruments, supplies, or drugs | 100 |
| A0039 | Return unused supplies to storage areas in clinic | 100 |
| K0286 | Assist physicians with urology procedures in clinic | 96 |
| D0100 | Assist physicians with endoscopic procedures | 96 |

TABLE VIII

ORTHOPEDIC TECHNICIAN JOB (ST066)

GROUP SIZE: 17 PERCENT OF SAMPLE: 2% PREDOMINANT GRADE: E-5

AVERAGE TICF: 5 YRS AVERAGE TAFMS: 10 YRS

AVERAGE NUMBER OF TASKS PERFORMED: 88

| TASKS | | PERCENT MEMBERS PERFORMING |
|-------|--|----------------------------------|
| IASKS | | - I Did Oldinito |
| J0285 | Remove splints | 100 |
| J0284 | Remove casts | 100 |
| J0282 | Prepare patients for removal of casts or splints | 100 |
| J0269 | Apply short leg plaster or fiberglass casts | 100 |
| A0044 | Schedule clinic patients' appointments | 100 |
| J0272 | Apply standard long arm plaster or fiberglass casts | 100 |
| A0036 | Remove sutures from clinic patients | 100 |
| J0273 | Apply standard short arm plaster or fiberglass casts | 100 |
| J0266 | Apply short arm scaphoid plaster or fiberglass splints | 100 |
| A0035 | Remove skin staples from clinic patients | 100 |
| J0270 | Apply short leg plaster or fiberglass splints | 100 |
| J0249 | Apply long arm scaphoid plaster or fiberglass splints | 100 |
| J0250 | Apply long arm sugar tong plaster or fiberglass splints | 100 |
| A0040 | Review expiration dates on clinics' sterile instruments, supplies, or drugs | 100 |
| A0023 | Order x-rays | 94 |
| A0027 | Prepare patients for clinic examinations | 94 |
| J0268 | Apply short arm plaster or fiberglass splints, other than scaphoid or sugar tong | 94 |
| A0037 | Remove and dispose of sharps in clinic | 94 |
| J0251 | Apply long arm plaster or fiberglass splints, other than scaphoid or sugar tong | 94 |
| J0253 | Apply long leg plaster or fiberglass casts, other than cylinder | 94 |
| A0039 | Return unused supplies to storage areas in clinic | 94 |
| A0041 | Review patients' health records prior to appointments or surgery | 88 |
| J0265 | Apply short arm navicular plaster or fiberglass casts | 88 |
| A0002 | Answer appointment telephone lines | 88 |
| J0254 | Apply long leg plaster or fiberglass splints | 88 |

TABLE IX

CLINIC NCOIC JOB (ST087)

GROUP SIZE: 74
PERCENT OF SAMPLE: 10%

AVERAGE TICF: 7 YRS AVERAGE TAFMS: 10 YRS

PREDOMINANT GRADE: E-5

AVERAGE NUMBER OF TASKS PERFORMED: 213

| TASKS | | MEMBERS PERFORMING |
|-------|---|-----------------------|
| A0007 | Change dressings or packs in clinic | 100 |
| A0036 | Remove sutures from clinic patients | 99 |
| A0037 | Remove and dispose of sharps in clinic | 99 |
| A0002 | Answer appointment telephone lines | . 97 |
| A0027 | Prepare patients for clinic examinations | 97 |
| A0005 | Brief patients on clinical policies | 97 |
| A0035 | Remove skin staples from clinic patients | 97 |
| D0133 | Perform hand and arm scrubs | 97 |
| D0124 | Don or doff sterile gowns or gloves | 97 |
| A0044 | Schedule clinic patients' appointments | 96 |
| D0120 | Assist surgeons in applying sterile drapes while scrubbed | 96 |
| A0039 | Return unused supplies to storage areas in clinic | 96 |
| A0040 | Review expiration dates on clinics' sterile instruments, supplies, or drugs | 96 |
| F0164 | Prepare casting or splinting materials | 95 |
| A0004 | Assist physicians in noninvasive physical examinations | 95 |
| D0123 | Dispose of sterile gowns or gloves | 95 |
| D0126 | Establish sterile fields in OR while scrubbed | 95 |
| D0125 | Don or doff surgical attire, other than sterile gowns or gloves, for operating room (OR) activities | 95 |
| A0023 | Order x-rays | 93 |
| A0022 | Obtain clinic patients' health records | 93 |
| F0168 | Prepare patients for application of casts or splints | 93 |
| A0017 | Inspect clinic equipment or instruments for cleanliness | 93 |
| A0030 | Prepare sterile setups for clinic procedures | 93 |
| A0041 | Review patients' health records prior to appointments or surgery | 92 |
| A0042 | Review SFs 513 (Medical Record - Consultation Sheet) | 92 |

TABLE X

SURGICAL LOGISTIS JOB (ST068)

GROUP SIZE: 14
PERCENT OF SAMPLE: 2%

AVERAGE TICF: 6 YRS AVERAGE TAFMS: 10 YRS

PREDOMINANT GRADE: E-4

AVERAGE NUMBER OF TASKS PERFORMED: 58

| TASKS | | MEMBERS PERFORMING |
|-------|--|-----------------------|
| M0356 | Verify receipt of supplies from medical logistics | 100 |
| M0341 | Order medical supplies using local purchase procedures | 100 |
| M0350 | Research data from vendors for equipment purchases or standard medical supply purchases | 100 |
| M0353 | Review using activity issue/turn-in lists | 100 |
| M0355 | Review backorder reports | 100 |
| M0340 | Order medical supplies from USAF supply agencies, other than pharmacy or linen supplies | 100 |
| M0342 | Order nonmedical supplies from USAF supply agencies | 100 |
| M0335 | Inventory surgical instruments, supplies, or equipment, other than in CSS or field supplies or equipment | 100 |
| M0343 | Order nonmedical supplies using local purchase procedures | 100 |
| M0351 | Research supply catalogs or medical catalog (MEDCAT) supply listings | 93 |
| M0349 | Receive supplies from medical logistics | 93 |
| M0338 | Maintain organizational equipment or supply records | 93 |
| M0334 | Initiate and document turn-ins of equipment, tools, parts, or supplies | . 93 |
| M0352 | Review budget requirements | 93 |
| M0323 | Coordinate standard medical supply purchases with medical materiel | 86 |
| M0347 | Prepare shopping guides | 86 |
| M0321 | Arrange consignment purchases with vendors, salespersons, or logistics | 8 6 |
| M0333 | Identify and report equipment or supply problems | 86 |
| M0322 | Coordinate equipment purchases with medical materiel | 86 |
| M0336 | Maintain property custodial action/custodial receipt locator lists (CA/CRLs) | 86 |
| M0329 | Establish procedures for accountability of equipment, tools, parts, or supplies | 86 |
| M0331 | Evaluate serviceability of equipment, tools, parts, or supplies | 86 |

TABLE XI

SUPERVISORY AND MANAGEMENT JOB (ST052)

GROUP SIZE: 61

AVERAGE TICF: 13 YRS

PERCENT OF SAMPLE: 8%

AVERAGE TAFMS: 16 YRS

PREDOMINANT GRADE: E-6/E-7

AVERAGE NUMBER OF TASKS PERFORMED: 122

| TASKS | | PERCENT MEMBERS PERFORMING |
|-------|--|----------------------------------|
| O0404 | Counsel subordinates concerning personal matters | 100 |
| O0423 | Evaluate personnel for promotion, demotion, reclassification, or special awards | 100 |
| O0434 | Interpret policies, directives, or procedures for subordinates | 100 |
| O0428 | Initiate personnel action requests | 80 |
| O0396 | Conduct general meetings, such as staff meetings, briefings, conferences, or workshops | 80 |
| O0399 | Conduct supervisory performance feedback sessions | 80 |
| O0431 | Initiate or maintain call rosters or workcenter pyramid recall rosters | 80 |
| O0451 | Write correspondence, such as letters, point papers, or staff summary sheets | 80 |
| O0457 | Write or indorse military performance reports | 60 |
| O0414 | Develop or implement quality improvement (QI) programs | 60 |
| O0458 | Write recommendations for awards or decorations | 60 |
| O0390 | Assign personnel to work areas or duty positions | 60 |
| O0433 | Inspect personnel for compliance with military standards | 60 |
| O0449 | Schedule personnel for TDY assignments, leaves, or passes | 60 |
| O0456 | Write or indorse civilian performance appraisals | 60 |
| O0430 | Initiate actions required due to substandard performance of personnel | 60 |
| O0437 | Maintain administrative files | 60 |
| O0407 | Develop organizational or functional charts | 60 |
| O0391 | Assign sponsors for newly assigned personnel | 60 |
| O0453 | Write job or position descriptions | 60 |
| O0402 | Consult daily assignment sheets | 40 |
| O0422 | Evaluate personnel for compliance with performance standards | 40 |
| O0403 | Consult schedule of operations | 40 |
| O0443 | Participate in OI programs | 40 |

TABLE XII

SUPERINTENDENTS JOB (ST033)

GROUP SIZE: 5

AVERAGE TICF: 15 YRS

PERCENT OF SAMPLE: 1%

AVERAGE TAFMS: 20 YRS

PREDOMINANT GRADE: E-7

AVERAGE NUMBER OF TASKS PERFORMED: 28

| | | PERCENT MEMBERS PERFORMING |
|-------|--|----------------------------------|
| TASKS | | 1 Eld Oldvin (C |
| O0433 | Inspect personnel for compliance with military standards | 97 |
| O0422 | Evaluate personnel for compliance with performance standards | 97 |
| O0437 | Maintain administrative files | 95 |
| O0396 | Conduct general meetings, such as staff meetings, briefings, conferences, or workshops | 95 |
| O0404 | Counsel subordinates concerning personal matters | 93 |
| 00434 | Interpret policies, directives, or procedures for subordinates | 92 |
| O0406 | Determine or establish work assignments or priorities | 92 |
| O0458 | Write recommendations for awards or decorations | 92 |
| O0409 | Develop or establish work methods or procedures | 90 |
| O0419 | Establish performance standards for subordinates | 90 |
| P0468 | Determine training requirements | 89 |
| O0457 | Write or indorse military performance reports | 87 |
| O0423 | Evaluate personnel for promotion, demotion, reclassification, or special awards | 87 |
| O0410 | Develop or establish work schedules | 87 |
| O0399 | Conduct supervisory performance feedback sessions | 87 |
| O0390 | Assign personnel to work areas or duty positions | 85 85 |
| O0430 | Initiate actions required due to substandard performance of personnel | 85 |
| O0401 | Initiate supervisory orientations for newly assigned personnel | 85 |
| P0461 | Brief personnel concerning training programs or matters | 84 |
|)0449 | Schedule personnel for TDY assignments, leaves, or passes | 80 |
| O0402 | Consult daily assignment sheets | 79 7 0 |
| P0467 | Counsel trainees on training progress | 79 |
| P0476 | Evaluate progress of trainees | 77 |
| P0478 | Maintain training records or files | 74 |